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Service Manual

ORDER NO. ARP3327

PLASMA DISPLAY

PDP-50MXE10

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-50MXE10	YVXK5	AC100 - 240V	

• This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
PDP-504CMX/LUC/1	ARP3241	SAFETY INFORMATION, EXPLODED VIEWS AND PARTS LIST, BLOCK DIAGRAM, PCB PARTS LIST, ADJUSTMENT, IC INFORMATION etc.

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SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

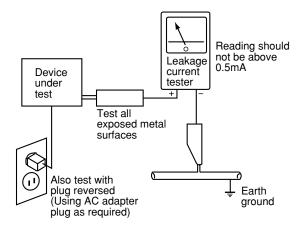
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

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PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

1. Power Cord

В

- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

■High Voltage Generating Point

The places where voltage is 100 V or more besides the live parts are described above. You must not touch them, since there is risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

1. POWER SUPPLY Unit	(223V)
2. 50 X DRIVE Assy	
3. 50 Y DRIVE Assy	(353V)
4. 50 SCAN A Assy	(353V)
5. 50 SCAN B Assy	(353V)
6. X CONNECTOR A Assy	(-230V to 223V)
7. X CONNECTOR B Assy	(-230V to 223V)

Discharge the VSUS voltage, as shown below:

[Method for discharging the VSUS voltage]

- 1. Set DRF_SW on the DIGITAL VIDEO Assy to ON (Drive OFF status). *1, *2
- 2. Leave the switch at that position for about 20-30 seconds.
- 3. If the power is on, turn it off. Then return DRF_SW to the OFF position. *3

Notes

- *1: You can also set the unit to "Drive OFF status" by sending the "DRF" RS232C command from the PC.
- *2: DRF_SW can be switched whether the power is on or off.
- *3: Power-down will occur if DRF_SW is set to OFF while the power is on. (See "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM".) ... Refer to Service Manual order NO. "PDP-504CMX: ARP3241"

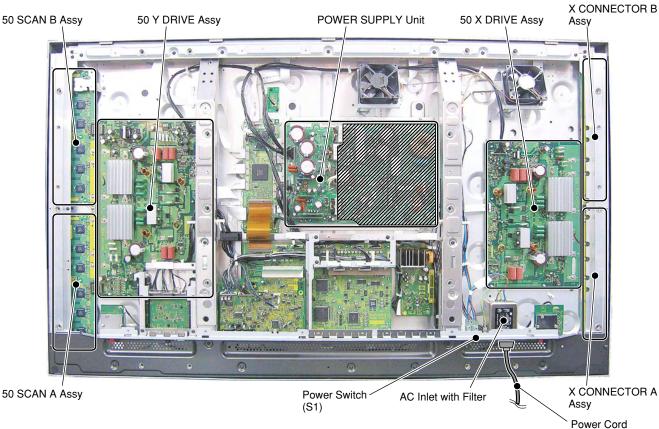


Fig.1 Charged Section and High Voltage Generating Point (Rear view)

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PDP-50MXE10

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1. CANCELING DETECTION BY THE TRAP SWITCH

Canceling detection by the TRAP switch

Outline: For video data transmission from the HDMI input to the plasma display, digital signals are used. Therefore, this unit adopts the HDCP (High-bandwidth Digital Content Protection) system for copyright protection. This unit is also provided with a detection switch (TRAP switch) that will prohibit the unit from being turned on again if the rear case of the unit is opened, in

order to prevent the panel technology from being leaked out.

Function: To deactivate the detection of the TRAP switch

Purposes: 1. During production of this unit, adjusting with the rear cover opened is possible.

2. During servicing or repairing, diagnoses of the assemblies are possible while the power is on.

Methods: For setting, use RS232C commands:

TSN: Ignore the monitoring of the switch CTM: Clear the detection log of the switch TSY: Reactivate monitoring of the switch

Notes:

- The TRAP switch is located on the chassis (see Fig.2 below).
- Once rear case opening is detected, send the TSN and CTM commands.
- Because the TSN command is not stored in memory, monitoring of the switch can be reactivated by turning the unit off then back on.
- · The same setting is possible using the Factory menu.

• How to enter Factory mode using the remote control unit

Please refer to the technical documentation (Service knowhow).

• How to clear the detection log of the TRAP switch

In the INITIALIZE layer, hold the OSD key on the remote control unit pressed for at least 3 seconds.

After a power-down, to cancel detection of the TRAP switch using only the remote control unit, follow the procedures below.

First, fix the TRAP switch to its depressed position. Set the drive ON/OFF switch in the DIGITAL VIDEO Assy to OFF, Then enter the Factory mode. Press the MUTE key five times, then hold the DISPLAY key pressed for at least 4 seconds. Set the AC switch on the panel to OFF. The log is also cleared. Then set the drive ON/OFF switch to ON.

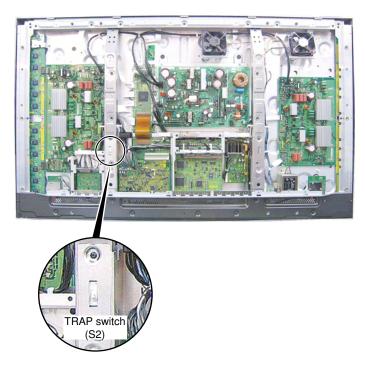


Fig.2 TRAP switch

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2. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

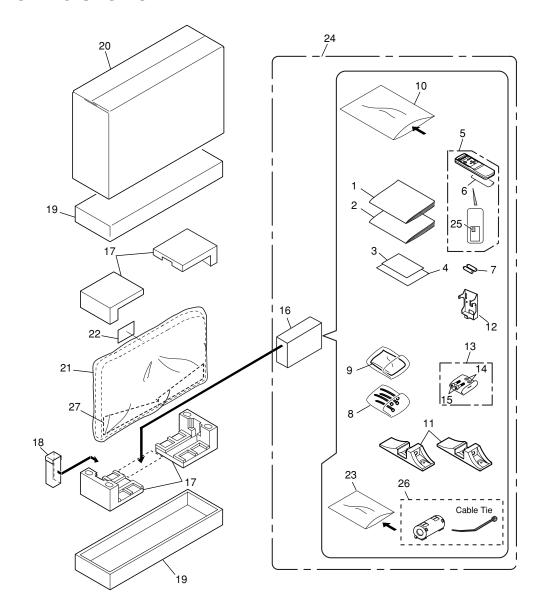
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- Reference Nos. indicate the pages and Nos. in the service manual for the base model.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

$$5.62k \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC \boxed{5} \boxed{6} \boxed{2} \boxed{1} F$$

• Parts of the packing section are all mentioned in this manual.

2.1 PACKING SECTION



• PACKING Parts List

Mark	No.	Description	Part No.
	1	Operating Instructions	ARC1550
		(Italian / Spanish / Dutch / Chines	e)
	2	Operating Instructions	ARE1404
		(English / French / German)	
	3	Caution Sheet	ARM1245
NSP	4	Warranty Card	ARY1149
	5	Remote Control Unit	AXD1486
	6	Battery Cover	AZN2462
NSP	7	Dry Cell Battery	VEM1031
	8	Binder Assy	AEC1758
	9	Wiping Cloth (for screen)	AED1285
	10	Vinyl Bag	AHG1330
	11	Display Stand	AMR3264
	12	Remote Control Holder	AMR3268
	13	Screws Set	AXX1060
	14	Washer	WB80FTC
	15	Bolt	SMZ80H400FTC
	16	Accessory Case Assy	AHC1040
	17	Pad	AHA2280
	18	Cord Case	AHC1039
	19	Under Carton	AHD3135
	20	Upper Carton	AHD3434
	21	Mirror Mat	AHG1327
	22	Caution Sheet	ARM1279
	23	Vinyl Bag	AHG1337
	24	Accessory Assy MXE2	AXX1070
	25	Weee Label L	AAX3271
	26	Ferrite Core	ATX1039
	27	Front Sheet	AHB1241

2.2 EXTERIOR SECTION

■ CONTRAST TABLE

PDP-50MXE10/YVXK5 and PDP-504CMX/LUC/1 are constructed the same except for the following :

			Par	Part No.		
Ref. No.	Mark	Symbol and Description	PDP-504CMX LUC/1	PDP-50MXE10 YVXK5	Remarks	
		PCB ASSEMBLIES				
P15 - 3		1DIGITAL VIDEO Assy	AWV2169	AWV2248	Note.	
	NSP	1RGB Assy	AWV2185	Not used		
P39 - 2		2RGB Assy	AWZ6992	Not used		
	NSP	1RGB H Assy	Not used	AWV2247		
P39 - 2		2RGB H Assy	Not used	AWW1064	Note.	
	NSP	1CMX FUKUGO Assy	AWV2170	Not used		
P39 - 4		2AV I/O Assy	AWZ6847	Not used		
	NSP	1MXE FUKUGO H Assy	Not used	AWV2249		
P39 - 4		2AV I/O H Assy	Not used	AWW1065	Note.	
		CHASSIS SECTION (2)				
		Power Switch (S2) (TRAP)	Not used	ASG1089	No1.	
		3P Housing Wire (J114)	Not used	ADX3049	No2.	
		TERMINAL PANEL and REAR SECTION				
P21 - 28	NSP	Name Label	AAL2516	AAL2722		
P21 - 29		Caution Label	AAX3048	AAX3159		
P21 - 33		Terminal Label R	AAX3063	AAX3161		
P21 - 34		Terminal Label C	AAX3064	AAX3162		
P21 - 35		Terminal Label L	AAX3061	AAX3160		

Note: For PCB ASSEMBLIES, Refer to "CONTRAST OF PCB ASSEMBLIES".

: The numbers in the remarks column correspond to the numbers on the "EXPLODED VIEWS".

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■ CONTRAST OF PCB ASSEMBLIES

• RGB H ASSY

AWW1064 and AWZ6992 are constructed the same except for the following:

Mark	Symbol and Description	Par	t No.	Remarks
IVIAIK	Symbol and Description	AWZ6992	AWW1064	nemarks
	[MAIN UCOM H BLOCK]			
	IC7208	TC74VHCT541AFT	TC74VHCT541AFTS1	
	R7275, R7276	Not used	RS1/16S472J	*1
	R7333	Not used	RS1/16S101J	*1
	CN7204	Not used	B3B-EH	*1
	[SUB LPF&AD H BLOCK]			
	F6601	ATF1194	ATF1213	
	[IC2 H BLOCK] F7001, F7002	ATF1194	ATF1213	
	[IC3 H BLOCK] F7101, F7102	ATF1194	ATF1213	

^{*1:} Refer to "3. SCHEMATIC DIAGRAM".

• AV I/O H ASSY (AWW1065)

Marl	k No.	Description	Part No.	Mark No.	Description	Part No.
AV	OHBLO	OCK]				
	IICONDUC					
	IC7609		24LCS21A	C7619,	C7635, C7637, C7695, C7697	
	IC7610, I	C7613	AN5870SB	C7721		CEHAT470M16
	IC7602, I	C7605-IC7607	BA4558F-HT		C7686, C7690	CEHAT471M16
	IC7603		BD3869AF	,	C7602, C7609, C7610, C7614	
<u> </u>	IC7604		NJM78L09UA	C7616,	C7638, C7639, C7643, C7653	CKSQYB225K1
	IC7601		TC4052BFT		C7630, C7640, C7650	CKSRYB102K50
	IC7612		TC74AC04FT		C7652, C7660, C7661, C7666	CKSRYB103K5
	IC7611		TC74VHCT541AFTS1	C7676,	C7680, C7685, C7689	CKSRYB103K50
	Q7602, C	27605, Q7702	2SC4116	C7698-0	C7703, C7707, C7712, C7713	CKSRYB103K50
	Q7603		DTA124EUA	C7715,	C7717	CKSRYB103K5
	Q7606-Q	7608	DTC124EUA	C7621,		CKSRYB104K1
	Q7701		HN1C01FU		C7620, C7662, C7663, C7667	
	Q7601		RN1902		C7677, C7678, C7684	CKSRYB105K1
	Q7609		SM6K2		C7694, C7723	CKSRYB105K1
	D7601		1SS301	C7641,	C7651	CKSRYB222K5
	D7606-D	7608, D7610, D7611	1SS302	C7646,		CKSRYB471K5
	D7613, D	7614, D7616, D7617	1SS302		C7618, C7624-C7626, C7636	
	D7619, D		1SS355	· · · · · · · · · · · · · · · · · · ·	C7649, C7655, C7664, C7668	
	D7602, D	7603, D7605, D7609	UDZS5.6B		C7682, C7683, C7687	CKSSYF104Z16
	D7604				C7692, C7696, C7704, C7706 C7711, C7720	CKSSYF104Z16
CAF	ACITORS			PERIOTORS	•	
	C7633, C		CCSRCH101J50	RESISTORS	D7750	DC4/4000000E
	C7673, C		CCSRCH220J50	R7751-F		RS1/16S2200F
	C7631, C		CCSRCH221J50	R7712,		RS1/16S2201F
	C7611, C	7612	CCSRCH471J50		R7701, R7741-R7743	RS1/16S27R0F
	C7722		CEHAT100M50	R7653, R7709-F	R7654, R7673, R7674 R7711	RS1/16S3301F RS1/16S75R0F
	C7654		CEHAT101M10			
	C7665		CEHAT101M16	Other R	esistors	RS1/16S###J
	C7623, C	7648	CEHAT220M50			
	C7705		CEHAT221M6R3	OTHERS		
	C7714, C	7716, C7718	CEHAT331M10		2, CN7603(JACK)	AKN1069
					S, CN7607(15P D-SUB SOCKT)	
				CN7601	(15P- PLUG)	KM200NA15

Mark No.	Description	Part No.	Mark No.	Description	Part No.
[IF UCOM B					
SEMICONDUC	TORS	041 004 P	C752	2	CEHAT221M6R3
IC8705		24LC01B		2, C7510, C7516, C7518	CEHAT470M16
IC8702		HD64F3687FP		3, C7506	CKSRYB222K50
IC8703		PST9230N		4, C7520, C7573-C7577	CKSRYB471K50
IC8701		TC74VHC08FT		1, C7509, C7513, C7515, C7517	
IC8704		TC7W126FU	0730	1, 07309, 07313, 07313, 07317	010011104210
00704		00 1404 A	C751	9, C7521, C7523, C7525, C7527	CKSSYF104Z16
Q8701		2SJ461A		9, C7531, C7533, C7536	CKSSYF104Z16
Q8708		DTA124EUA		9, C7540, C7543-C7545, C7547	
Q8702		DTC124EUA		1-C7559, C7580, C7581, C8582	
0011 0 4110 5	u TEDO		0733	1 07333, 07300, 07301, 00302	0110011104210
COILS AND F	ILIERS	LOTAMDOO IOCOO	RESISTOR	s	
L8702		LCTAWR68J2520		D-R7565, R7568-R7573	RAB4CQ0R0J
				4-R7529, R7536, R7540	RAB4CQ100J
CAPACITORS				2-R7555	RAB4CQ100J
C8706, C		CCSRCH120J50			
C8708, C		CEHAT470M16		3-R7590	RAB4CQ470J
C8704, C		CEHAT471M6R3	R753		RS1/16S3900F
C8717, C	08720	CKSRYB103K50	<u></u>		D011100::::::
C8722-C		CKSRYB471K50	Other	Resistors	RS1/16S###J
			OTHERS		
C8709		CKSRYB472K50	OTHERS	04 (14 010)	A1/A14 000
	8703, C8705, C8711-C8713	CKSSYF104Z16		01 (JACK)	AKN1069
C8715, C	C8716, C8719, C8721, C8725	CKSSYF104Z16	CN75	03 (DVI SOCKET 24P)	AKP1250
RESISTORS					
R8719, F	R8720, R8723, R8724, R8726	RAB4C101J			
R8702, F	R8704, R8745	RAB4C103J			
R8736		RS1/16S1302F			
Other Re	esistors	RS1/16S###J			
OTHERS					
CN8701	(PLUG 8-P)	AKM1225			
	8703 (TEST PIN)	AKX9002			
	CERAMIC RESONATOR)	ASS1168			
,	32.768 KHz)	ASS1172			
,	(6P PLUG)	KM200NA6			
0110704	(61 1 253)	TAMESONAG			
[DVI HDCP I					
SEMICONDUC		0.41.00000/1\0.001			
IC7502,	10/512	24LC02B(I)SN			
IC7511		BD6522F			
IC7503		SII1169CTU			
IC7513		SN74AHC2G66HDCT			
IC7504-I	C7510	TC74LCX541FT			
0====		DTA 40 45 HA			
Q7503		DTA124EUA			
	Q7504, Q7506, Q7507	RN1303			
Q7502		RN1902			
Q7505		SM6K2			
D7501		1SS301			
_					
D7503-D	7505	1SS302			
D7502		UDZS6R8(B)			
CAPACITORS	.				
		CCCDC1404 IF0			
	C7526, C7530, C7532	CCSRCH101J50			
	C7535, C7537, C7538	CCSRCH101J50			
	C7542, C7546, C7548-C7550	CCSRCH101J50			
C7504, C		CCSRCH221J50			
	C7578, C7579	CEHAT101M10			

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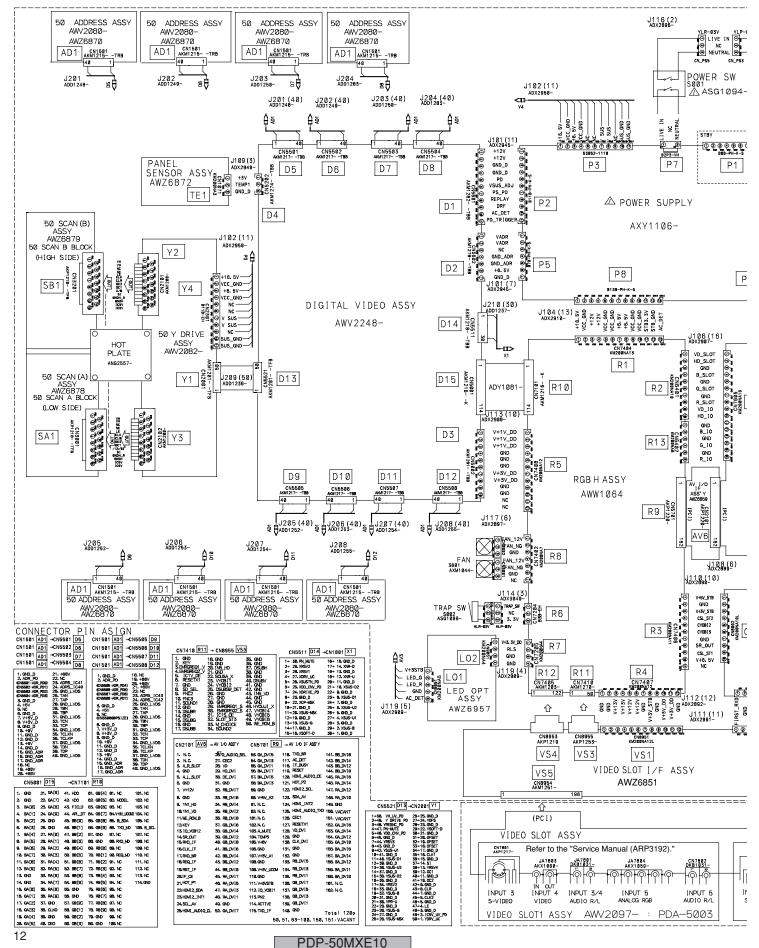
3. SCHEMATIC DIAGRAM

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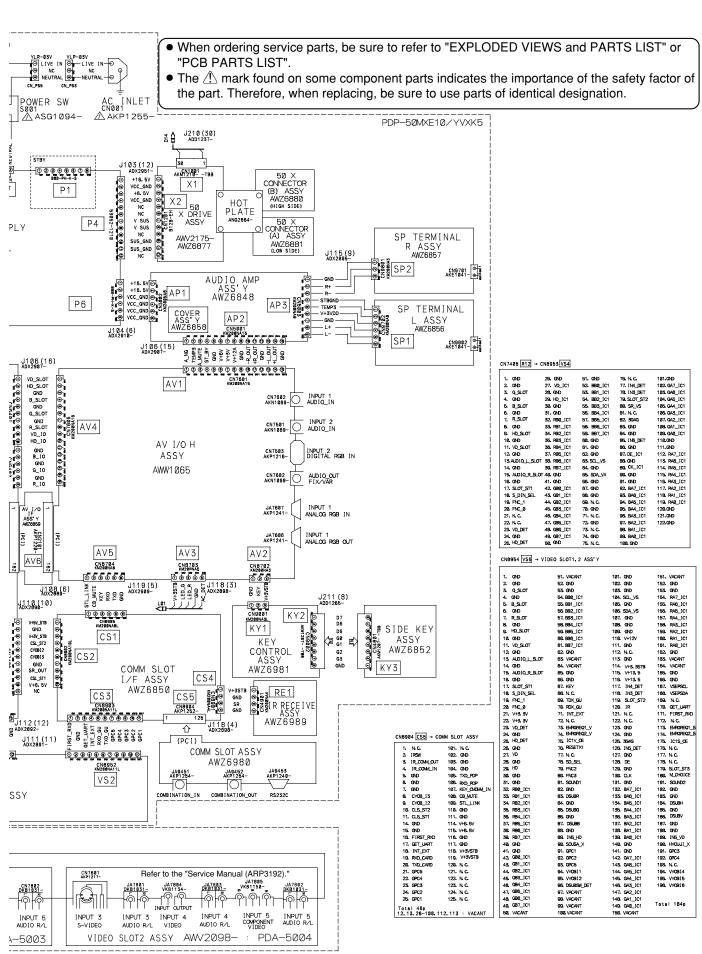
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3.1 OVERALL WIRING DIAGRAM



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PDP-50MXE10

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3.2 RGB ASSY (9/10) PK77/INT7/AT6X - EBTNI\01.4 ↑7274T MEDEL WAIN
MEDEL WAIN
MEG WAIN € eTNI\ruq 92279T⊖ - EgarTNI\suq 8<u>2</u>27¶T ⊖ 72279T ⊖ 82274T 🔾 62279T ⊖ E + ITNI \auq STB V+3V_UCOM2 EarTNI\/TL9 0 1379 4. 7K RXD MD C7204 **E**808/114 TXD_MD 02579T ↔ PI2√SCK®∃ rēē79T ⊖ BXD_VS SEETAT ⊖ TO_OXA TS_TSTA TS_TS M TXD_VS PI5√SCK1 1 -<mark>₹</mark> 715/0Hd ₹₹₹¶Ţ ⊖ ZOS/IHd RYD WR _TXD_ ын у у ск № L7207 FIS/SH4 <u> 488797</u>⊖ TXD_WR 156 **∂**88879T ⊖ ьне√еска $C\Gamma K^-MB$ 151 82279T ⊖ ₽68√S14 <mark>万</mark> <u> ₹42797 </u> ${\rm BXD}^{-}{\rm ICS}$ 128 103√10d 84279T O ${\rm LXD}^{-}{\rm ICS}$ 156 PC2/DSTP2/DE0P2
DP81/DACK8 PB2/DSTP8/DEOP0 ogs√sck4<mark></mark> 6+27qTO CLK_1C2 1201 PG3/S15 ⊕ TP7337 C7206 BB3/DREQ1 55 PB6/10WRX $BXD^{-}IC2$ 121 PG4/505 159 159 159 MD 1 MD 2 MD 3 $\pm \text{XD}^{-} \text{IC2}$ 132 - -|82274T ⊖ SIB V+3V_UCOM2 **RGB ASSY** 87278 S W 47 STB MAIN UCOM H BLOCK R7276 Large size R7298 W 7299 V+3V_UCOM2 SCH diagram 1/2 CLK_1C3 HDMI2_SDA HDMI2_SCL R7260SDA R72594. 7KSCL_N SDA EP A_MUTE DSUBSW_DET VYOB14 VYOB15 C7217 ⊕ 82279T ⊕ R7273 007216 4700P TP7226 4 JK W 4 W W 4 0 1C7203 PST3628UR-TRB <u>@</u> ⊕ 82279T P 9 25J461A-TLB 8 7 6 5) NCC SCL 2/2 0 V+3V_UCOM2 22 0.175 24 0.1716 RS1/16SS***J-T STB 2/2 0.1/16 HJrst His CH HOYB

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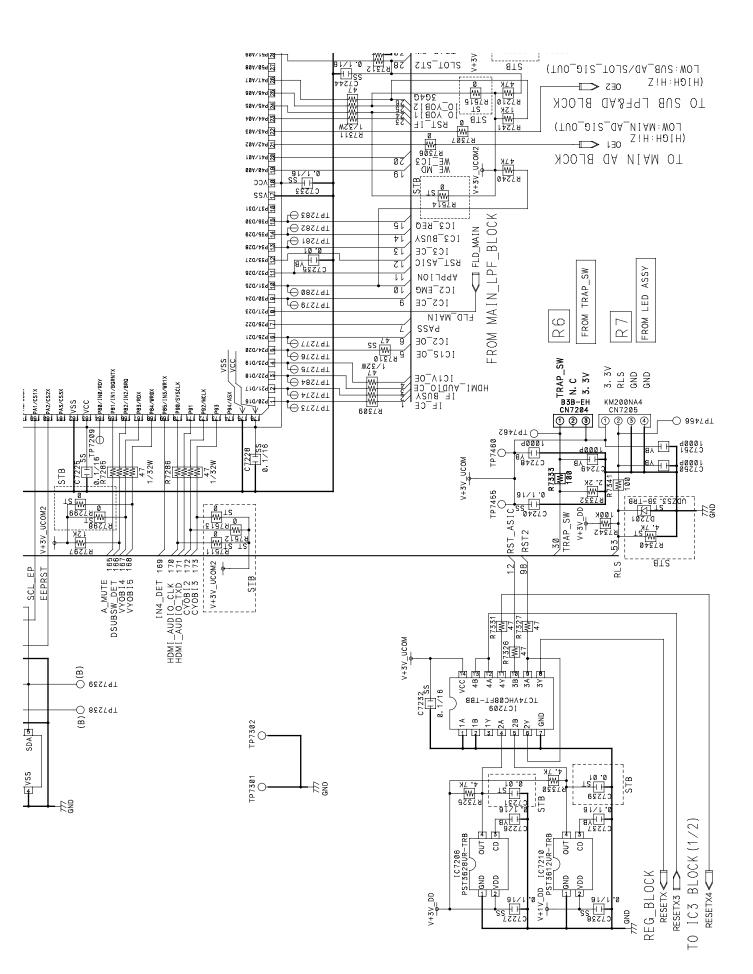
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PDP-50MXE10

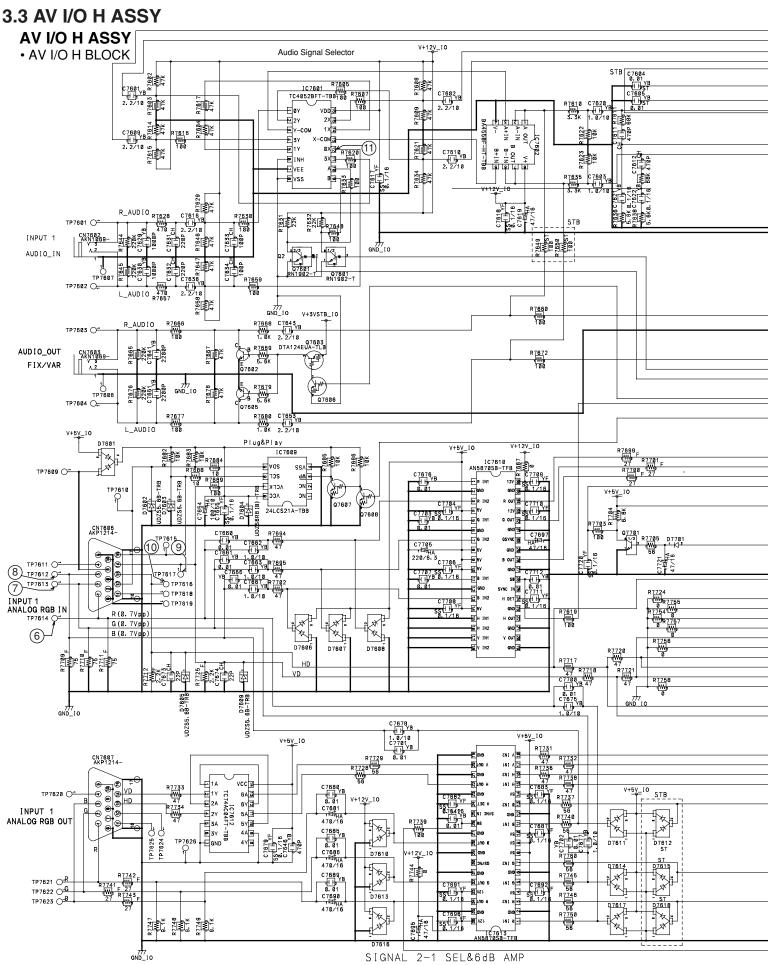


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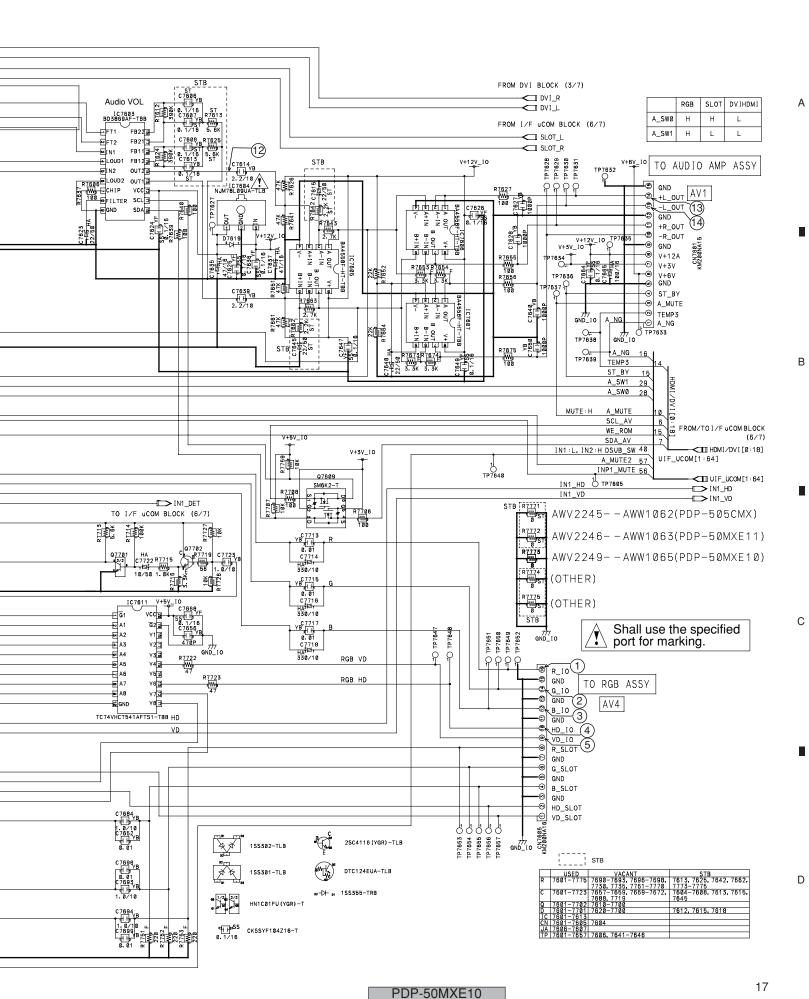
PDP-50MXE10

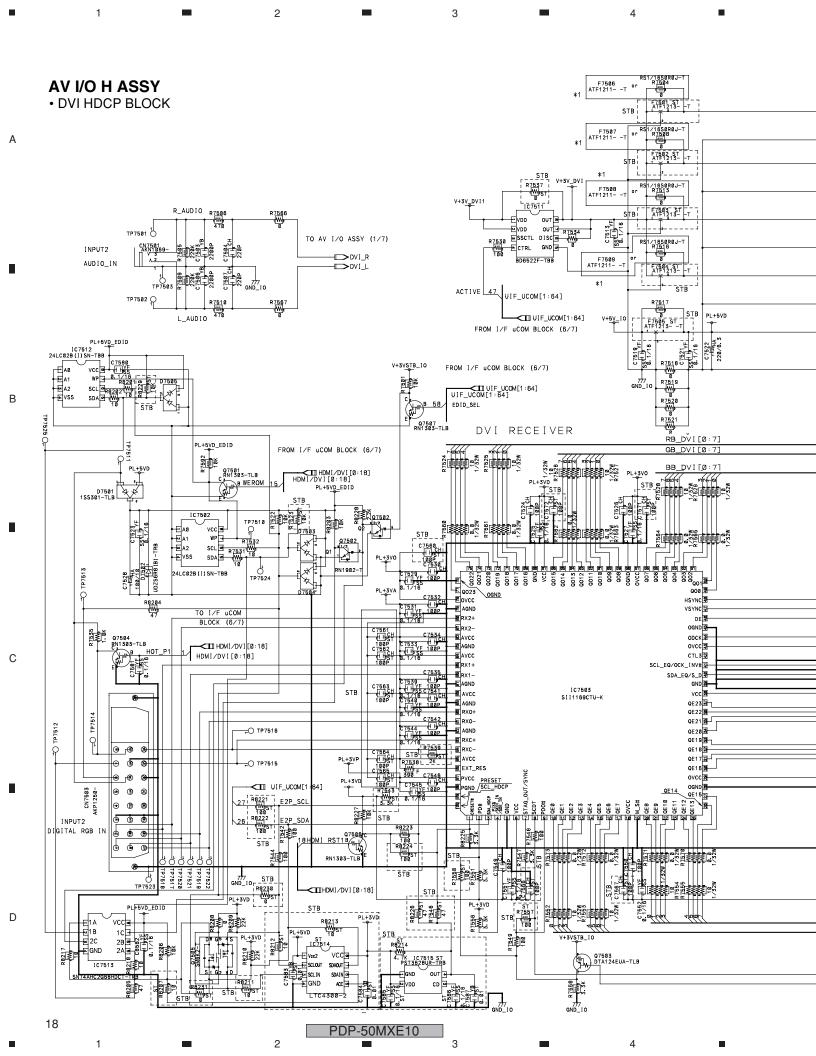


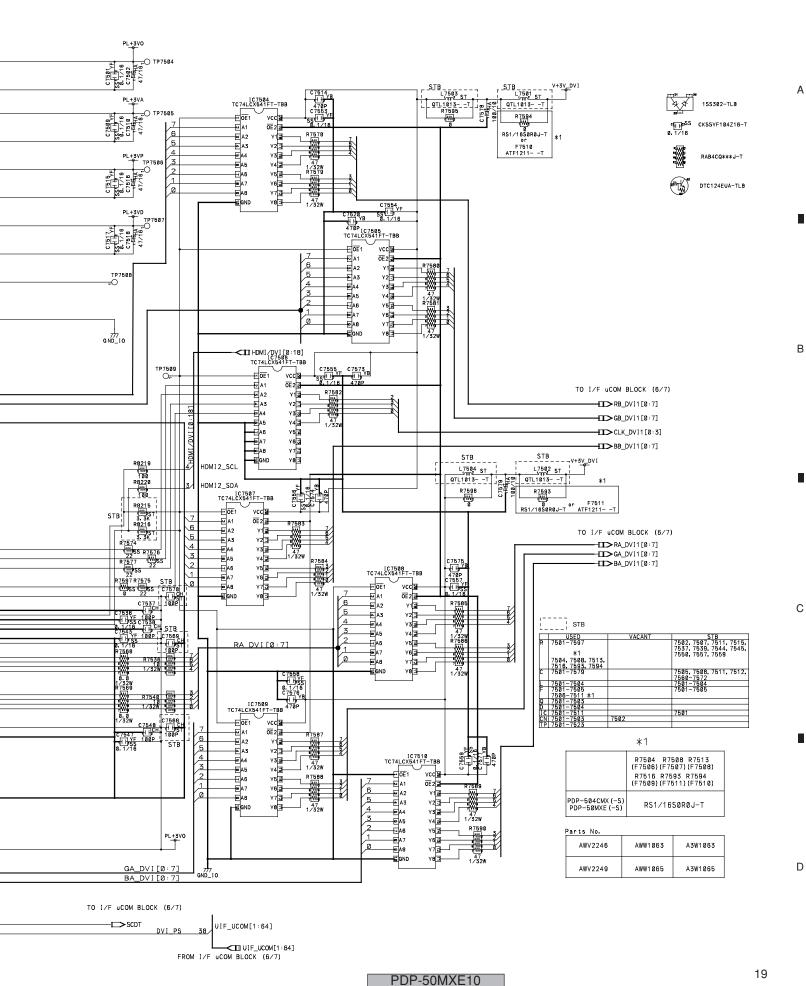
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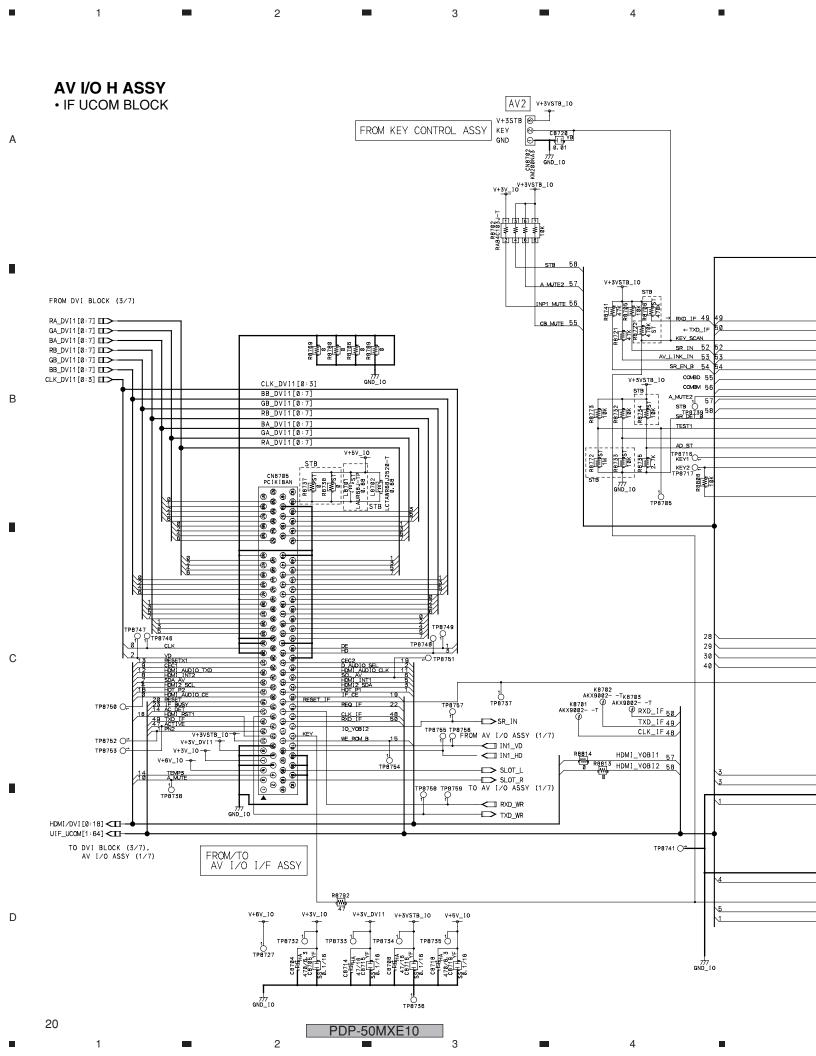
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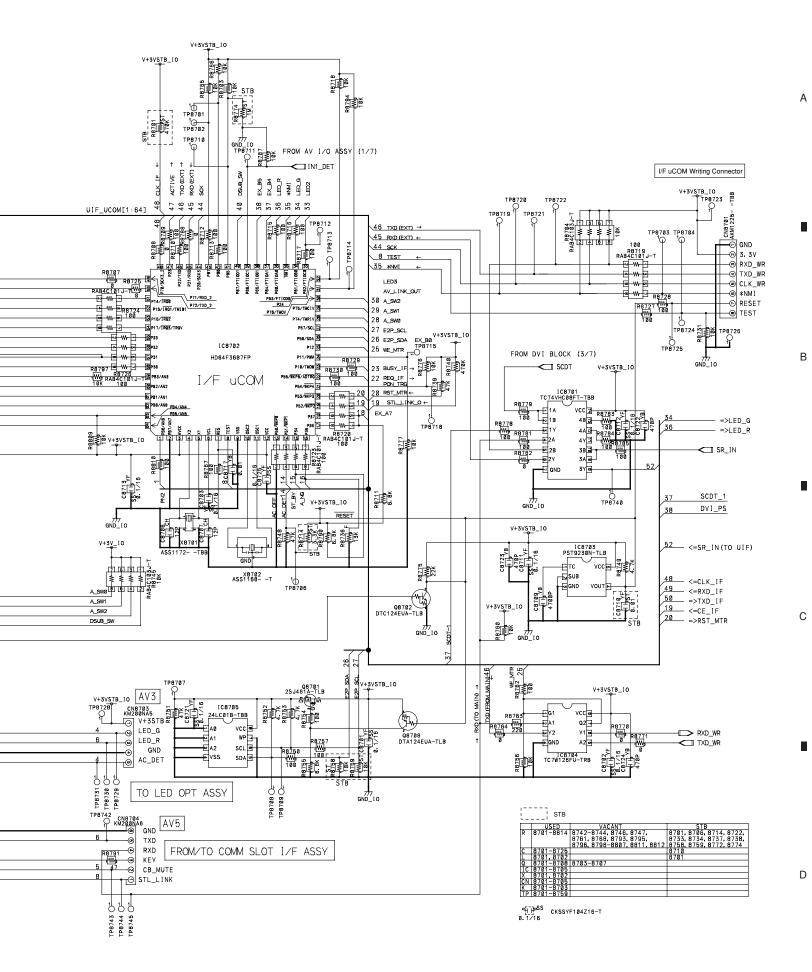
PDP-50MXE10







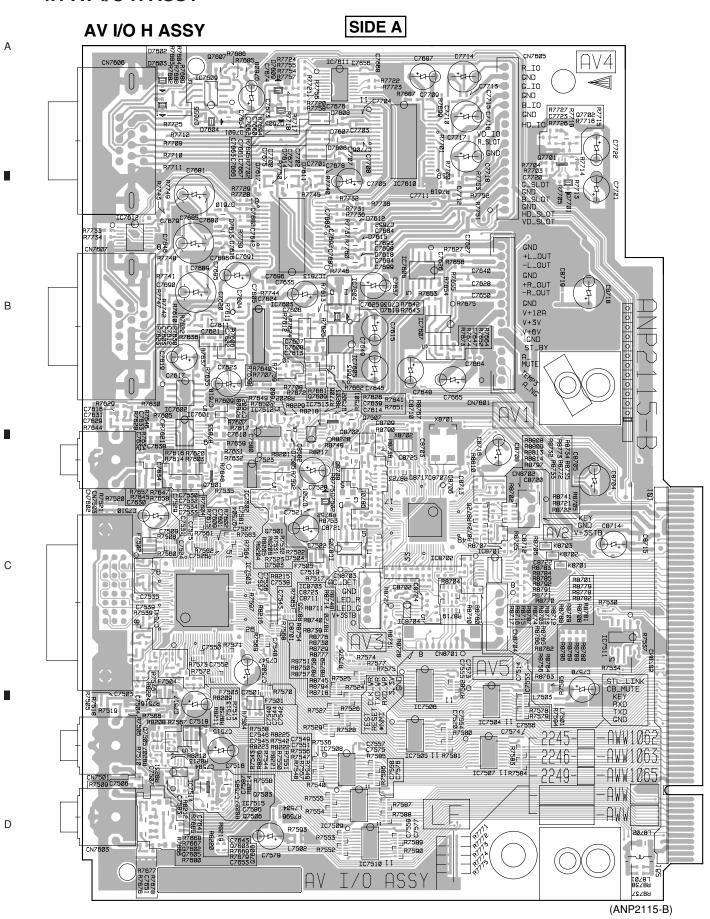




PDP-50MXE10

4. PCB CONNECTION DIAGRAM

4.1 AV I/O H ASSY



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PDP-50MXE10

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SIDE B AV I/O H ASSY (ANP2115-B)

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Service Manual



ORDER NO. ARP3241

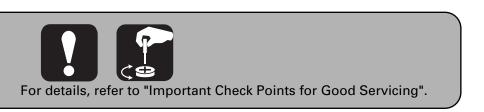
PLASMA DISPLAY

PDP-504CMX PDP-434CMX

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-504CMX	LUC/1	AC100 - 120V	
PDP-434CMX	LUC/1	AC100 - 120V	

HOW TO DISTINGUISH THE CURRENT MODEL FROM THE PREVIOUS MODEL Serial No. •Name label, Barcode label Previous model (PDP-504CMX/LUC) CFSS00001JP (PDP-434CMX/LUC) Number for identification of the current model Number for identification of the previous model MFD 2004 Current model (PDP-504CMX/LUC/1) (PDP-434CMX/LUC/1) CFSS10001JP PDP-504CMX/1 SER. NO Number for identification of the current model For details, see the next section "How to distinguish the current model from the previous model."



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2004

HOW TO DISTINGUISH THE CURRENT MODEL FROM THE PREVIOUS MODEL

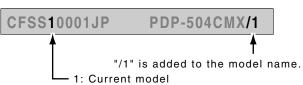
Label reading

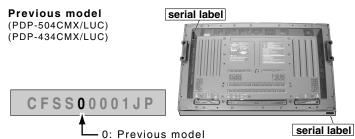
You can distinguish the current model from the previous model by referring to the model-name label and the barcode label.

On the serial label

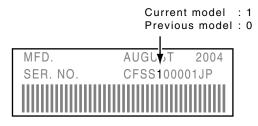
Current model (PDP-504CMX/LUC/1) (PDP-434CMX/LUC/1)

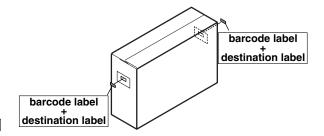
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On the barcode label





Distinction of PC boards

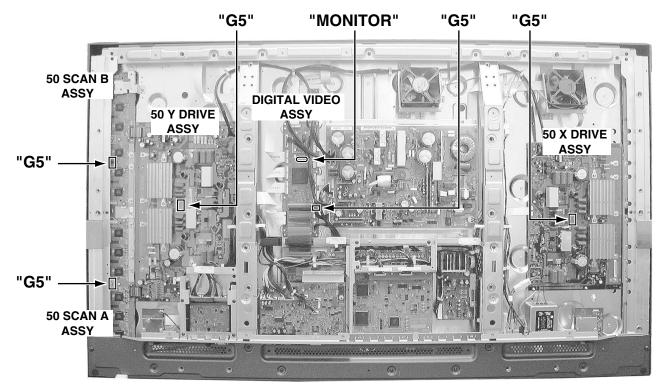
Some PC boards of the previous model are incompatible with the current model.

Do NOT mount a PC board of the previous model in the current model, as it may cause a failure.

When ordering a PC board, be sure to check the part number correctly.

On a PC board of the current model, "G5" is marked, as shown below.

Note: The photo is from a 50-inch model, but G5 markings are provided in exactly the same way as with the 50-inch model.



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PDP-504CMX/1

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

 Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

3

Leakage Current Cold Check

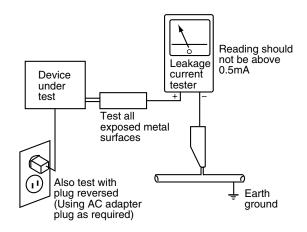
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

4

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PDP-504CMX/1

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

• 50 inch model

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

■High Voltage Generating Point

The places where voltage is 100 V or more besides the live parts are described above. You must not touch them, since there is risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

1. POWER SUPPLY Unit	(223V)
2. 50 X DRIVE Assy	(-230V to 223V)
3. 50 Y DRIVE Assy	(353V)
4. 50 SCAN A Assy	(353V)
5. 50 SCAN B Assy	(353V)
6. X CONNECTOR A Assy	(-230V to 223V)
7. X CONNECTOR B Assy	(–230V to 223V)

Discharge the VSUS voltage, as shown below:

[Method for discharging the VSUS voltage]

- 1. Set DRF_SW on the DIGITAL VIDEO Assy to ON (Drive OFF status). *1, *2
- 2. Leave the switch at that position for about 20-30 seconds.
- 3. If the power is on, turn it off. Then return DRF_SW to the OFF position. *3

Notes

- *1: You can also set the unit to "Drive OFF status" by sending the "DRF" RS232C command from the PC.
- *2: DRF_SW can be switched whether the power is on or off.
- *3: Power-down will occur if DRF_SW is set to OFF while the power is on. (See "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM".)

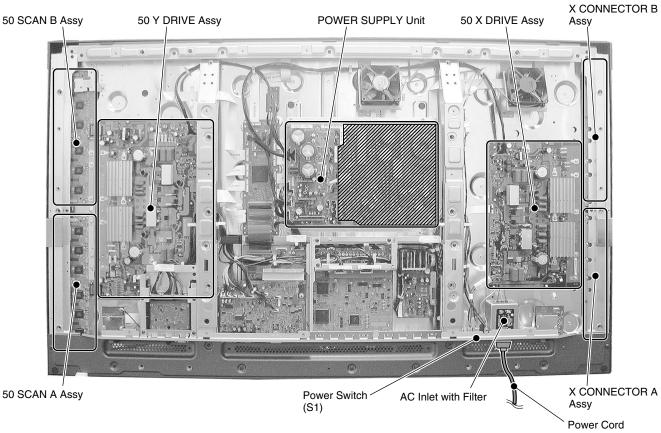


Fig.1 Charged Section and High Voltage Generating Point (Rear view)

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■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the POWER SUPPLY Unit)
- 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

• 43 inch model

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

■High Voltage Generating Point

The places where voltage is 100 V or more besides the live parts are described above. You must not touch them, since there is risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

1. POWER SUPPLY Unit	(215V)
2. 43 X DRIVE Assy	
3. 43 Y DRIVE Assy	(345V)
4. 43 SCAN A Assy	(345V)
5. 43 SCAN B Assy	(345V)
6. X CONNECTOR A Assy	(-235V to 215V)
7. X CONNECTOR B Assy	(-235V to 215V)

Discharge the VSUS voltage, as shown below:

[Method for discharging the VSUS voltage]

- 1. Set DRF_SW on the DIGITAL VIDEO Assy to ON (Drive OFF status). *1, *2
- 2. Leave the switch at that position for about 20-30 seconds.
- 3. If the power is on, turn it off. Then return DRF_SW to the OFF position. *3

Notes

- *1: You can also set the unit to "Drive OFF status" by sending the "DRF" RS232C command from the PC.
- *2: DRF_SW can be switched whether the power is on or off.
- *3: Power-down will occur if DRF_SW is set to OFF while the power is on. (See "7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM".)

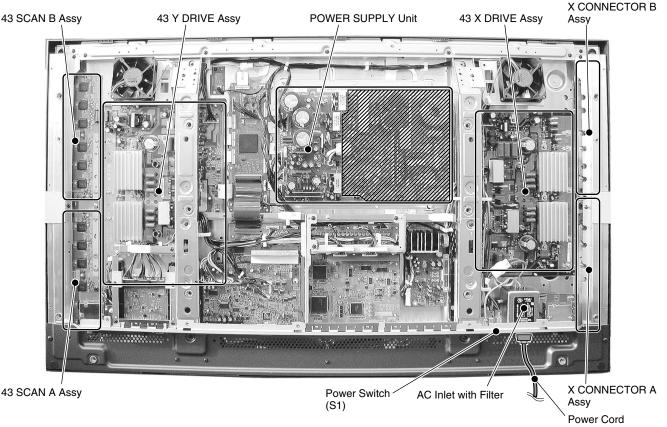


Fig.2 Charged Section and High Voltage Generating Point (Rear view)

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PDP-504CMX/1

[Important Check Points for Good Servicing]
In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

2 Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

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3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

5 Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

9 There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

5



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

COTENTS SAFETY INFORMATION......3 2.2.6 PANEL CHASSIS (50) ASSY (AWU1111)......24 3.1.1 OVERALL BLOCK DIAGRAM (1/2) for PDP-504CMX......40 3.1.11 RGB ASSY.......53 3.1.12 AUDIO AMP and COMM SLOT ASSYS......54 4. PCB CONNECTION DIAGRAM (Refer to "Service Manual: ARP3242") 5. PCB PARTS LIST 68 6. ADJUSTMENT 88 6.4 HOW TO ENTER FACTORY MODE91 7.1.3 PROCESSING AT THE TIME OF ABNORMALITIES.......133

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1. SPECIFICATIONS

■ PLASMA DISPLAY (PDP-504CMX)

General
Light emission panel 50 inch plasma AC display panel
109.8 (W) x 62.1 (H) x 126.1 (diagonal) cm
Number of pixels 1280 x 768
Power supply AC 100 - 120 V, 50/60 Hz
Rated current
Standby power consumption 0.8 W
External dimension1218 (W) x 714 (H) x 98 (D) mm
47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D) in.
(including display stand)
1218 (W) x 737 (H) x 300 (D) mm
47-31/32 (W) x 29-1/32 (H) x 11-13/16 (D) in.
Weight 41.0kg
(including display stand) 41.6 kg
Operating temperature range 0 to 40 °C
Operating Humidity
Operating atmospheric pressure range 760 to 1100 hPa

Input/output Video

INPUT 1 [Input]

Mini D-sub 15 pin (socket connector) RGB signal (G ON SYNC compatible) RGB ... 0.7 Vp-p/75 Ω /no sync. HD/VS, VD ... TTL level

/positive and negative polarity $/2.2 k\Omega$

G ON SYNC

... 1 Vp-p/75 Ω /negative sync. *Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

Output Mini D-sub 15 pin (socket connector) 75 Ω /with buffer

INPUT 2

DVI-D 24-pin connector Input

Digital RGB signal (DVI compliant

TMDS signal)

*Compatible with Microsoft "Plug & Play"

(VESA DDC 2B)

Audio

Input AUDIO INPUT (for INPUT 1)

Stereo mini jack

L/R ... 500mVrms/more than 10 k Ω

AUDIO INPUT (for INPUT 2)

Stereo mini jack

 $L/R \dots 500 mV rms/more than 10 k\Omega$

Output **AUDIO OUTPUT** Stereo mini jack

L/R ... 500mVrms (max)/less than 5 k Ω

SPEAKER

L/R ... 8 – 16 Ω /7W +7W (at 8 Ω)

Control

RS-232C	D-sub 9 pin (pin connector)
COMBINATION IN/OUT	Mini DIN 6 pin (x2)

Accessories

Power cord	. 1
Remote control unit	
Remote control unit holder	. 1
AA (R6) batteries	. 2
Cleaning cloth (for screen)	1
Speed clamps	. 2
Bead bands	
Warranty	. 1
Operating Instructions	1
Display stands	2
Washers	2
Hex hole bolts (M8X40)	2

Due to improvements, specifications and design are subject to change without notice.

Accessories

• Power Cord (ADG1215)



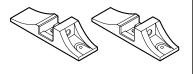
 Cleaning Cloth (for wiping front panel) (AED1208)



 Remote Control Unit (AXD1486)



• Display Stand (x2) (AMR3264)



Dry Cell Battery (R6P, AA)

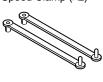


• Remote Control Unit Holder (AMR3268)



Binder Assy (AEC1758)

Speed Clamp (×2)



 Screw Set (AXX1060) Washer (×2)



• Hex Hole Bolts (×2) (SMZ80H400FTB)



• Bead Bands (x2)



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Control

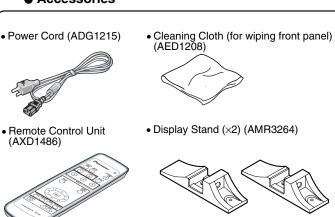
RS-232CD-sub 9 pin (pin connector) COMBINATION IN/OUT..... Mini DIN 6 pin (x2)

Accessories

Accessories	
Power cord	
Remote control unit	1
Remote control unit holder	1
AA (R6) batteries	2
Cleaning cloth (for screen)	1
Speed clamps	
Bead bands	
Warranty	1
Operating Instructions	1
Display stands	2
Washers	2
Hex hole bolts (M8X40)	2
· · · · · · · · · · · · · · · · · · ·	

Due to improvements, specifications and design are subject to change without notice.

Accessories



Dry Cell Battery (R6P, AA)



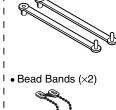
 Remote Control Unit Holder (AMR3268)



Binder Assy (AEC1758)

Speed Clamp (×2)





Screw Set (AXX1060)

Washer (×2) (WB80FTB)

Hex Hole Bolts (×2)₁ (SMZ80H400FTB)



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2. EXPLODED VIEWS AND PARTS LIST

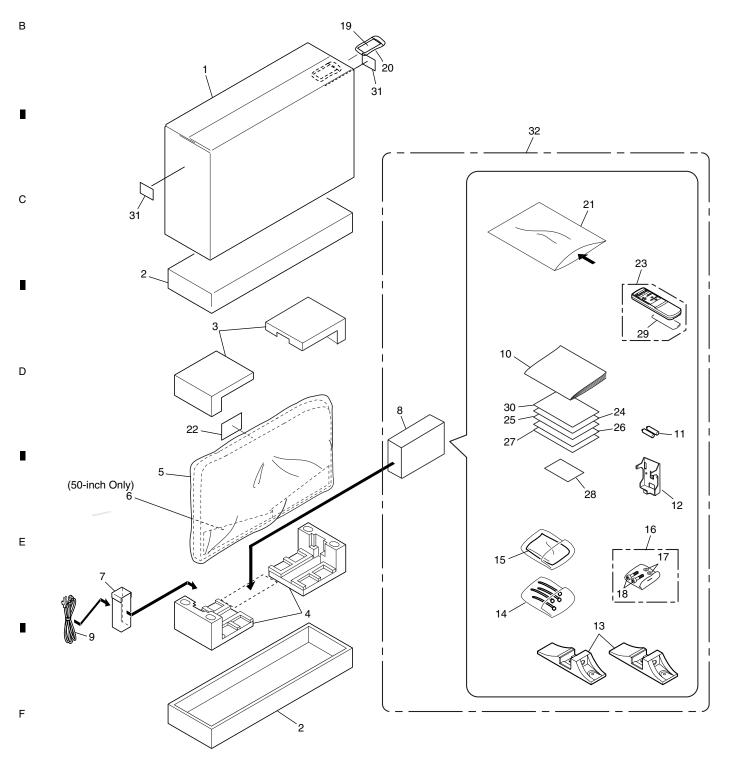
NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

2.1 PACKING for PDP-504CMX and PDP-434CMX models

2.1.1 PACKING

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PDP-504CMX/1

PACKING Parts List

Mark	No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
	1	Upper Carton	See Contrast table(2)	21	Vinyl Bag	AHG1330	
	2	Under Carton	See Contrast table(2)	22	Caution Sheet	ARM1201	
	3	Pad	See Contrast table(2)	23	Remote Control Unit	AXD1486	
	4	Pad	See Contrast table(2)	24	Caution Sheet	ARM1245	
	5	Mirror Mat	AHG1284	25	Plasma Caution Sheet	ARM1147	
	6	Front Sheet	See Contrast table(2)	26	Caution Sheet	ARM1200	
	7	Cord Case	AHC1037	27	Image Caution Sheet	ARM1220	
	8	Accessory Case Assy	AHC1040	NSP 28	Warranty Card	ARY1146	
<u> </u>	9	AC Power Cord	ADG1215	29	Battery Cover	AZN2462	
	10	Operating Instructions	ARD1055	30	Image Stick Caution	ARM1240	
		(English/ French/ Japanese)					
				31	Destination Label	AAX3152	
NSP	11	Battery (R6P, AA)	VEM1031	NSP 32	Accessory C. Assy4cmx	AXX1065	
	12	Reomote Control Holder	AMR3268				
	13	Display Stand	AMR3264				
	14	Binder Assy AEC1758					
		(Speed Clamp x2, Bead Band x2)					
	15	Wiping Cloth (for screen)	AED1208				
	16	Screws Set	AXX1060				
	17	Washer	WB80FTB				
	18	Bolt	SMZ80H400FTB				
NSP	19	Warranty Card	ARY1093				

NSP 20 Vinyl Bag

(2) CONTRAST TABLE PDP-504CMX/LUC/1 and PDP-434CMX/LUC/1 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-504CMX/ LUC/1	PDP-434CMX/ LUC/1
	1	Upper Carton (504CMX)	AHD3216	Not used
	1	Upper Carton (434CMX)	Not used	AHD3232
	2 2	Under Carton (504CMX) Under Carton (434CMX)	AHD3037 Not used	Not used AHD3100
	3 4	Pad Pad	AHA2280 AHA2280	AHA2282 AHA2283
	6	Front Sheet	AHB1241	Not used

AHG-195

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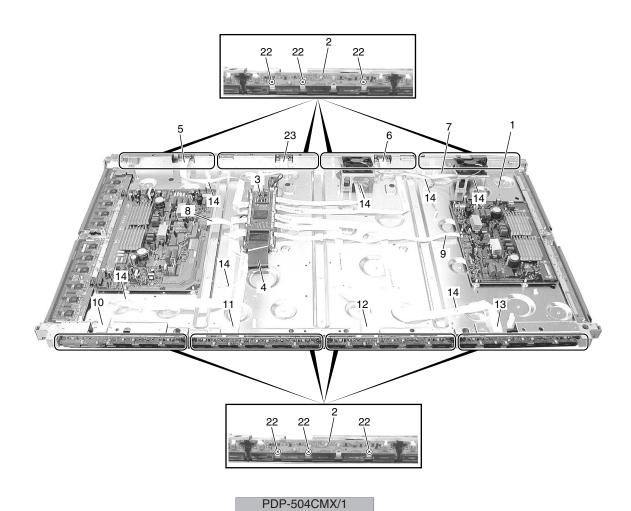
2.2 PDP-504CMX model 2.2.1 CHASSIS SECTION (1)

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CHASSIS	SECT	ION (1) parts	List

	() [
Mark No.	<u>Description</u>	Part No.
NSP 1	P. Chassis (50) Assy	AWU1111
NSP 2	50 ADDRESS Assy	AWZ6870
3	DIGITAL VIDEO Assy	AWV2169
4	FPC (114P)	ADY1081
5	Flexible Cable (J201)	ADD1248
6	Flexible Cable (J203)	ADD1250
7	Flexible Cable (J204)	ADD1283
8	Flexible Cable (J209)	ADD1236
9	Flexible Cable (J210)	ADD1237
10	Flexible Cable (J205)	ADD1252
11	Flexible Cable (J206)	ADD1253
12	Flexible Cable (J207)	ADD1254
13	Flexible Cable (J208)	ADD1255
14	Flat Clamp	AEC1879
15	PCB Spacer	AEC1941
16	PCB Support	AEC1938
17		AEC1745
18	PCB Spacer	AEC1947
19	Wire Clip	AEC1948
20	Rear Corner Label	AAX3081
21	Screw	ABZ30P060FTC
22	Screw	VBB30P080FNI
23	Flexible Cable (J202)	ADD1249
24	Wire Clip	AEC1992
25	Edge Card Spacer	AEC1998

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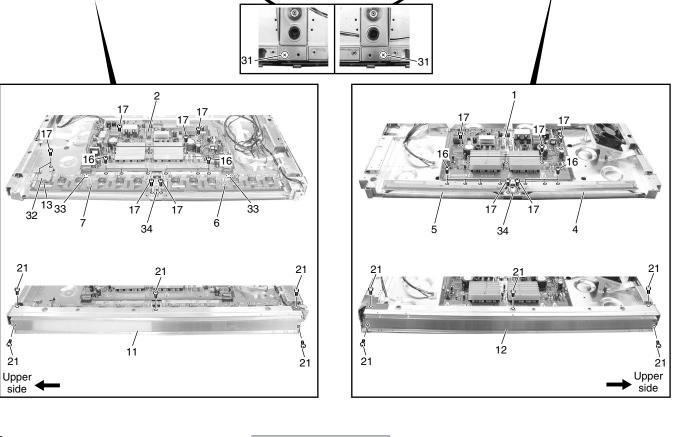
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3 2.2.2 CHASSIS SECTION (2) Α В 200V



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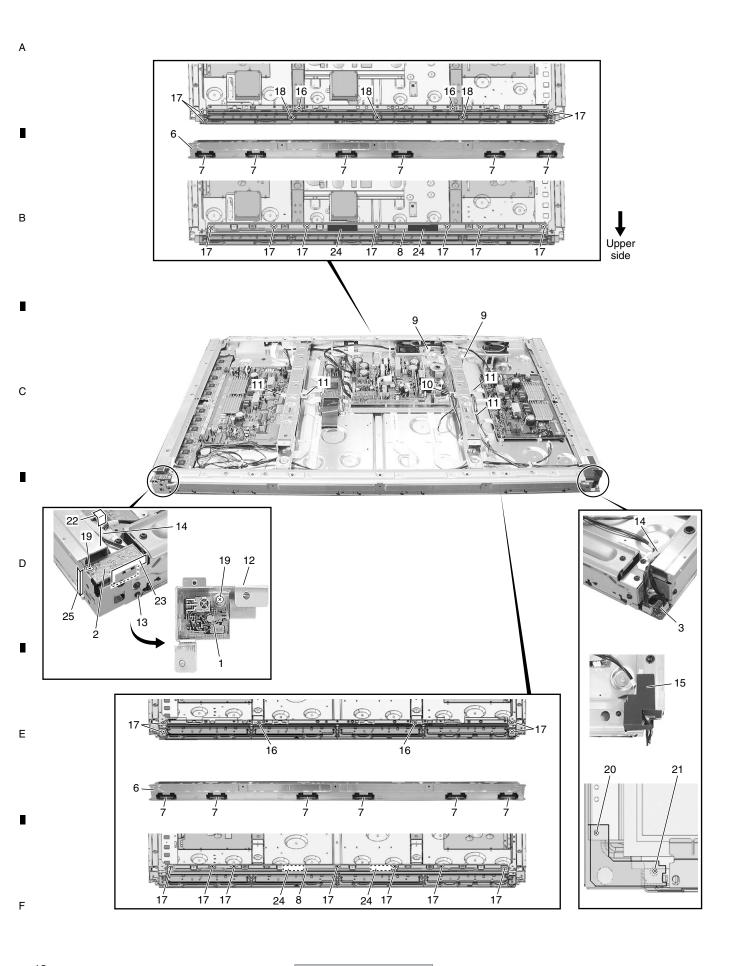
	5	-	6	7	-	8
CHASSIS	SECTION (2) pa	arts List				
Mark No.	<u>Description</u>	Part No	<u>.</u>			
1 5	O X DRIVE Assy	Δ\//7687	7			

	3 3LC HON (2) parts Li	31
Mark No.	<u>Description</u>	Part No.
1	50 X DRIVE Assy	AWZ6877
2	50 Y DRIVE Assy	AWV2082
<u> </u>	POWER SUPPLY Unit	AXY1083
NSP 4	X CONNECTOR B Assy	AWZ6881
NSP 5	X CONNECTOR A Assy	AWZ6880
NSP 6	50 SCAN A Assy	AWZ6878
NSP 7	50 SCAN B Assy	AWZ6879
8	PANEL SENSOR Assy	AWZ6872
9	Fan Motor (80 x 25)	AXM1044
10	Fan Angle	ANG2609
10	Tan 7 mgio	711102000
11	F. Chassis VL (50M)	ANA1753
12	F. Chassis VR (50M)	ANA1754
13	Silicon Sheet SC	AEH1080
14	Housing Wire (J117)	ADX2897
15	Screw	ABZ30P060FTC
16	Screw	PMB30P060FNI
17	Screw	VBB30P080FNI
18	••••	
19	Screw	PPZ50P100FTB
20	Nylon Rivet	AEC1671
21	Screw	AMZ30P060FTB
22	3P Housing Wire (J109)	ADX2948
23	11P Housing Wire (J102)	ADX2950
24	12P Housing Wire (J103)	ADX2951
25	Wire A (J101)	ADX2945
26	WiroD (1119)	ADV2000
26	Wire F (1110)	ADX2898
27	Wire E (J119)	ADX2909
28	9P Housing Wire (J115)	ADX2895
29	SUB Frame L assy (50M)	ANG2596
30	SUB Frame R assy (50M)	ANG2598
31	Screw	AMZ30P080FTC
32	SCAN Heatsink	ANH1630

31	Screw	AMZ30P080FTC
32	SCAN Heatsink	ANH1630
NSP 33	Card Spacer	AEC2013
34	Sel Plate	ANG2712

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	5	6	-	7	-	8	_
FRAME	SECTION parts List						
Mark No.	<u>Description</u>	Part No.					
1	IR RECEIVE Assy	AWZ6989					
2	KEY CONTROL Assy	AWZ6981					Α
3	LED OPT Assy	AWZ6957					^
4	••••						
5	••••						
6	Front Chassis H (50)	ANA1733					
7	Front Spacer (CMX)	AMR3384					
8	Rear Frame (50M)	ANG2602					
9	Wire Clip	AEC1948					
10	Wire Clip	AEC1992					
44	Mina Carlella	AEC1745					В
11 NSP 12	Wire Saddle IR Holder	ANG2551					Ь
13	Nylon Rivet	AEC1671					
14	Flat Clamp	AEC1879					
15	Enclosure Sheet 1	AMR3405					
15	Enclosure Sheet 1	AIVING405					
16	Screw	AMZ30P080FTC					
17	Screw	AMZ30P060FTB					
18	Screw	BPZ30P080FTB					
19	Screw	ABZ30P060FTC					
20	Nylon Rivet	AEC1997					
							С
21	Screw	BBZ30P050FTC					
22	Enclosure Sheet 2 (V)	AMR3411					
23	Enclosure Sheet 3	AMR3407					
24	Gasket (CM)	ANK1748					
25	Gasket FC-IR	ANK1758					
							D

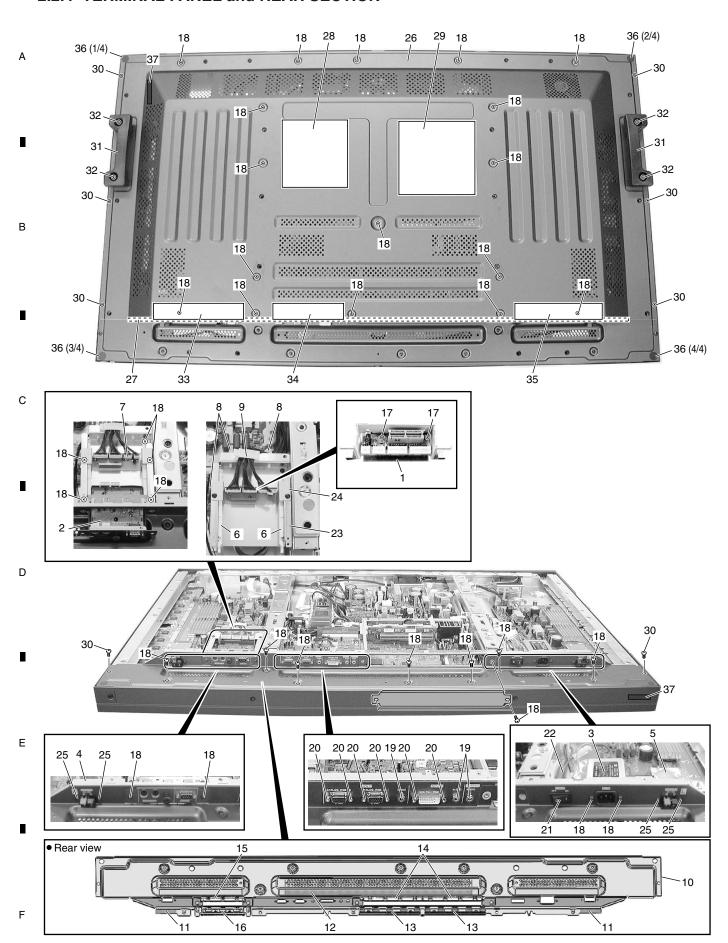
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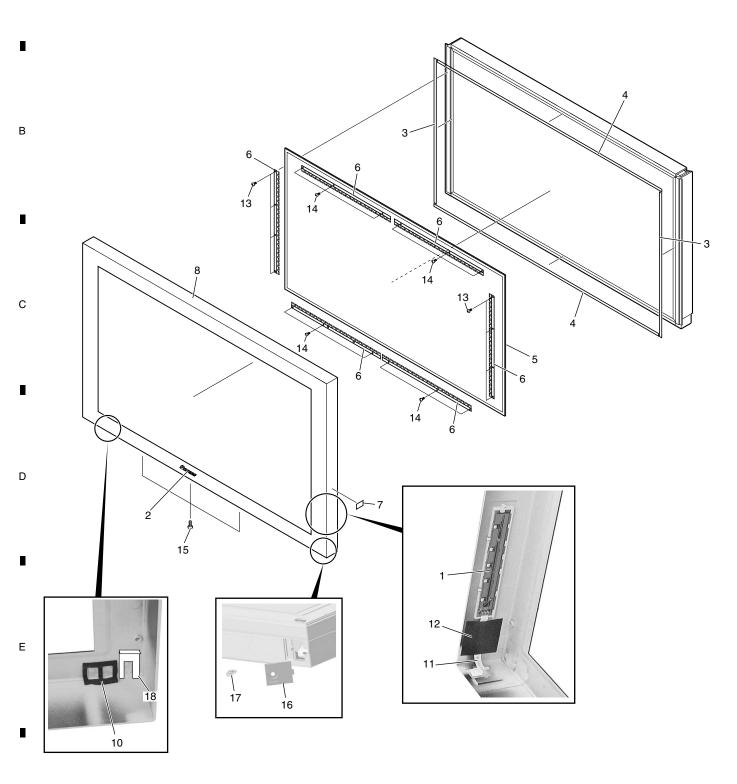


TERMINAL PANEL and REAR SECTION parts List

Mark N	lo.	<u>Description</u>	Part No.
1	1	COMM SLOT I/F Assy	AWZ6980
2	2	COMM SLOT Assy	AWZ6849
<u> </u>	3	AC Inlet (CN1)	AKP1255
4	4	SP TERMINAL R Assy	AWZ6857
5	5	SP TERMINAL L Assy	AWZ6856
e	6	Guide Rail EX	AEC1994
		6P Housing Wire (J108)	ADX2889
		Wire Saddle	AEC1745
		Clamp	AEC1884
1	0	Terminal Panel (504CMX)	ANG2603
1	1	Gasket SP-T	ANK1750
		Slot Panel 262 (N)	ANG2610
1	3	Slot Spring B126	ABK1033
1	4	Slot Spring T130	ABK1032
1	5	Slot Spring T94	ABK1034
1	6	Slot Spring B92	ABK1035
		Screw	VBB30P080FNI
		Screw	AMZ30P060FTB
1	9	Nut	ABN1040
2	20	Hexagon Head Screw	BBA1051
<u>^</u> 2	21	Power Switch (S1)	ASG1094
		Housing Wire (MX)(J116)	ADX2896
		COMM Stay A	ANG2605
		COMM Stay B	ANG2606
		Screw	APZ30P060FTB
9	26	Rear Case (50M)	ANE1623
		Gasket T-R50	ANK1751
NSP 2		Name Label	AAL2516
		Caution Label	AAX3048
		Screw	TBZ40P080FTB
3	31	Grip	AMR3380
		Screw	HMB50P140FTB
		Terminal Label R (50M2)	AAX3063
		Terminal Label C (M)	AAX3064
		Terminal Label L	AAX3061
3	36	Rear Corner Label (15)	AAX3081
3	37	Serial Sheet	AAX3143
J		33 311000	. 0 0 0 1 10

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		De et Ne					
Mark No		Part No.					
1		AWZ6852					
2	_	AAM1101					Α
3		AED1269					
4 		AED1270 AMR3348					
⚠ 5	Protect Panel Assy (50)	AIVIN3346					
NSP 6	Panel Holder (50)	ANG2563					
7		AAX2836					
8		AMB2788					
9							
10		AEB1400					
11	1 Flexible Cable (J211)	ADD1265					В
12	2 Flexible Seal	AEH1074					
13	3 Screw	ABZ30P060FTC					
14	4 Screw	APZ30P080FTB					
15	5 Screw	APZ30P120FTB					
16		AMR3394					_
17		AEC1877					
18	8 Earth Plate (MX)	AMR3432					
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2.2.6 PANEL CHASSIS (50) ASSY (AWU1111) Panel Chassis (50) Assy (AWU1111) Parts List

• Parts List

Α	Mark No.	<u>Description</u>	Part No.
	NSP	150 ADDRESS Assy	AWV2080
	NSP	250 ADDRESS Assy	AWZ6870
	NSP	150 SCAN FUKUGO Assy	AWV2083
	NSP	250 SCAN A Assy	AWZ6878
-	NSP	250 SCAN B Assy	AWZ6879
	NSP	2X CONNECTOR A Assy	AWZ6880
	NSP	2X CONNECTOR B Assy	AWZ6881
	NSP	Address Module (IC1-IC40)	AXF1129
В	NSP	Plasma Panel Assy (50")(V1)	AAV1249
	NSP	FPC (50XGA-X)	ADY1084
	NSP	FPC (50XGA-Y)	ADY1085
	NSP	Chassis Assy (50)	ANA1803
		Edge Card Spacer	AEC1998
•		PCB Spacer	AEC1944
		PCB Support	AEC1958
		Rivet	AMR1066
		FC Spacer	AMR3370
С	NSP	Adhesive	ZBA-KE3424S
	NSP	Cleaner	ZLX-AP7
	NSP	Tape	ZTA-8101-12
	NSP	Double Faced Tape	ZTB-5015-18
	NSP	Tape	ZTC-POLYCA-11
	NSP	Tape	ZTC-POLYCA-20
	NSP	Tape	ZTB-5015-9
	NSP	Tape	ZTC-900UL-15
	NSP	Silicon Rubber	ZTX-HC20-15
D	NSP	Wiping Cloth	ZTX-MX100-13
	NSP	Film	ZTX-2102Y35-2R5
	NSP	Film	ZTX-2102Y45-2R5
	NSP	Film	ZTX-2102Y45-5
	NSP	Silicon Rubber	ZTX-HC50-15
	NSP	Silicon Rubber	ZTC-EM7KBOR85T-15W
	NOF	Silicon Rubbei	Z10-EW/NDON031-15W

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2.2.7 PDP SERVICE ASSY (AWU1114) PDP SERVICE Assy (AWU1114)

• Parts List

Mark No.	Description	Part No.	
NSP	P. Chassis (50) Assy	AWU1111	
NSP	Front Chassis H (50)	ANA1733	
	F. Chassis VL (50M)	ANA1753	
	F. Chassis VR (50M)	ANA1754	
	Sub Frame L Assy (50M)	ANG2596	
	oub Frame E 7100y (00111)	7111022000	
	Sub Frame R Assy (50M)	ANG2598	
	Rear Frame (50M)	ANG2602	
NSP	SVC.Terminal P504CMX	ANG2680	
	Wire Saddle	AEC1745	
	PCB Support	AEC1938	
	PCB Spacer	AEC1941	
	PCB Spacer	AEC1947	
	Wire Clip	AEC1948	
	Panel Cushion V	AED1269	
	Panel Cushion H	AED1270	
	Front Spacer (CMX)	AMR3384	
	Wire Clip	AEC1992	
	Enclosure Sheet 1	AMR3405	
	Enclosure Sheet 2 (V)	AMR3411	
	Caution Label	AAX3031	
	Oddilon Label	AAXOOOT	
ISP	Drive Voltage Label	ARW1097	
	Screw	ABZ30P060FTC	
	Screw	AMZ30P060FTB	
	Screw	AMZ30P080FTC	
	Screw	BPZ30P080FTB	
	Carau	A D700D100ETD	
	Screw	APZ30P120FTB	
	Screw Screw	TBZ40P080FTB	
UCD		PMB30P060FNI AMB2839	
NSP	Front Case (504CMX SVC)		
	Rear Case (50M)	ANE1623	
	Pad	AHA2280	
	Under Carton	AHD3037	
NSP	Upper Carton 504CMX S	AHD3256	
	Protect Sheet	AHG1331	
	SCAN Heatsink	ANH1630	
	Sel Plate	ANG2712	
	Card Spacer	AEC2013	
	SCAN Silicon Sheet	AEH1080	
	Gasket (CM)	ANK1748	
	Rear Corner Label (15)	AAX3081	
	20 20001 (10)		

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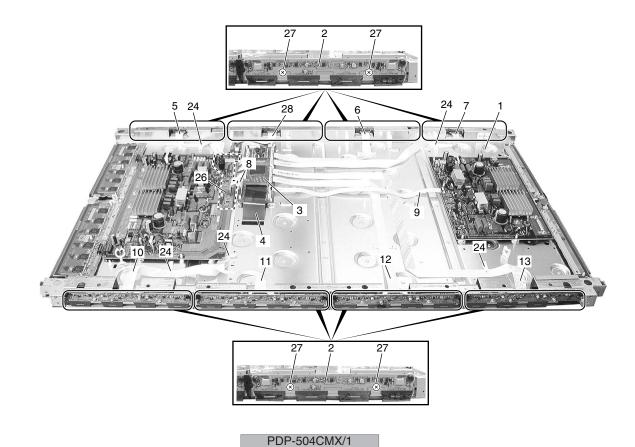
2.3 PDP-434CMX model 2.3.1 CHASSIS SECTION (1)

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CHASSIS SE	CTION (1) pa	rts List			
Mark No.	<u>Description</u>	Pa	art No.		

	0 0 2 0 1 1 0 1 (1) parto :	
Mark No.	<u>Description</u>	Part No.
NSP 1	P. Chassis (43) Assy	AWU1112
NSP 2	43 ADDRESS Assy	AWZ6862
3	DIGITAL VIDEO Assy	AWV2169
4	FPC (114P)	ADY1081
5	Flexible Cable (J201)	ADD1257
6	Flexible Cable (J203)	ADD1259
7	Flexible Cable (J204)	ADD1260
8	Flexible Cable (J209)	ADD1223
9	Flexible Cable (J210)	ADD1224
10	Flexible Cable (J205)	ADD1261
11	Flexible Cable (J206)	ADD1262
12	Flexible Cable (J207)	ADD1263
13	Flexible Cable (J208)	ADD1282
14	••••	
15	••••	
16	PCB Spacer	AEC1941
17	PCB Support	AEC1938
18	PCB Support	AEC1944
19	PCB Support	AEC1958
20	• • • • •	7.201000
21	Wire Saddle	AEC1745
22	PCB Spacer	AEC1947
23	Wire Clip	AEC1948
24	Flat Clamp	AEC1879
25	••••	
26	Y Drive Protect Sheet	AMR3346
27	Screw	VBB30P080FNI
28	Flexible Cable (J202)	ADD1258
29	Wire Clip	AEC1992
30	HL 18	AEC1980
31	Edge Card Spacer	AEC1998
32	Screw	ABZ30P060FTC

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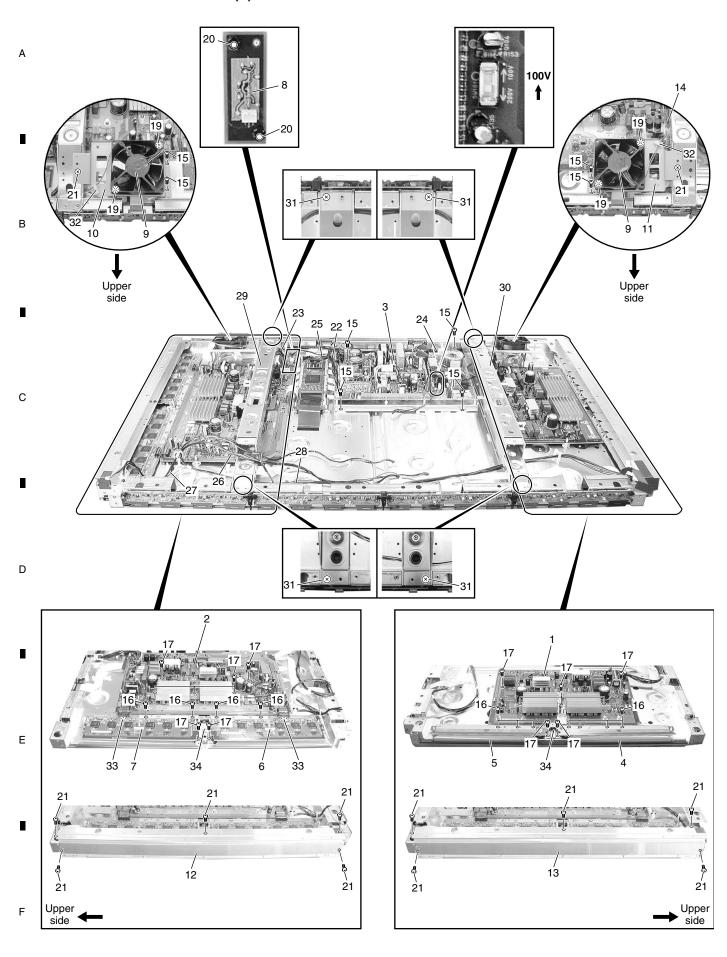
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2.3.2 CHASSIS SECTION (2)



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CHASSIS	S SECTION (2) parts List	t
Mark No.	<u>Description</u>	Part No.
1	43 X DRIVE Assy	AWZ6865
2	43 Y DRIVE Assy	AWV2078
⚠ 3	POWER SUPPLY Unit	AXY1083
NSP 4	X CONNECTOR B Assy	AWZ6876
NSP 5	X CONNECTOR A Assy	AWZ6875
NSP 6	43 SCAN A Assy	AWZ6873
NSP 7	43 SCAN B Assy	AWZ6874
8	PANEL SENSOR Assy	AWZ6872
9	Fan Motor (80 x 25)	AXM1044
10	Fan Angle L (43M)	ANG2655
11	Fan Angle R (43M)	ANG2656
12	F. Chassis VL (43M)	ANA1755
13	F. Chassis VR (43M)	ANA1756
14	Housing Wire (J117)	ADX2904
15	Screw	ABZ30P060FTC
16	Screw	PMB30P060FNI
17	Screw	VBB30P080FNI
18	••••	
19	Screw	PPZ50P100FTB
20	Nylon Rivet	AEC1671
21	Screw	AMZ30P060FTB
22	3P Housing Wire (J109)	ADX2847
23	11P Housing Wire (J102)	ADX2840
24	12P Housing Wire (J103)	ADX2841
25	Wire A (J101)	ADX2839
26	Wire G (J118)	ADX2905
27	Wire F (J119)	ADX2906
28	9P Housing Wire (J115)	ADX2902
29	SUB Frame L Assy (43M)	ANG2623
30	SUB Frame R Assy (43M)	ANG2625

 31
 Screw
 AMZ30P080FTC

 32
 Wire Clip
 AEC1948

 NSP 33
 Card Spacer
 AEC2013

 34
 Sel Plate
 ANG2712

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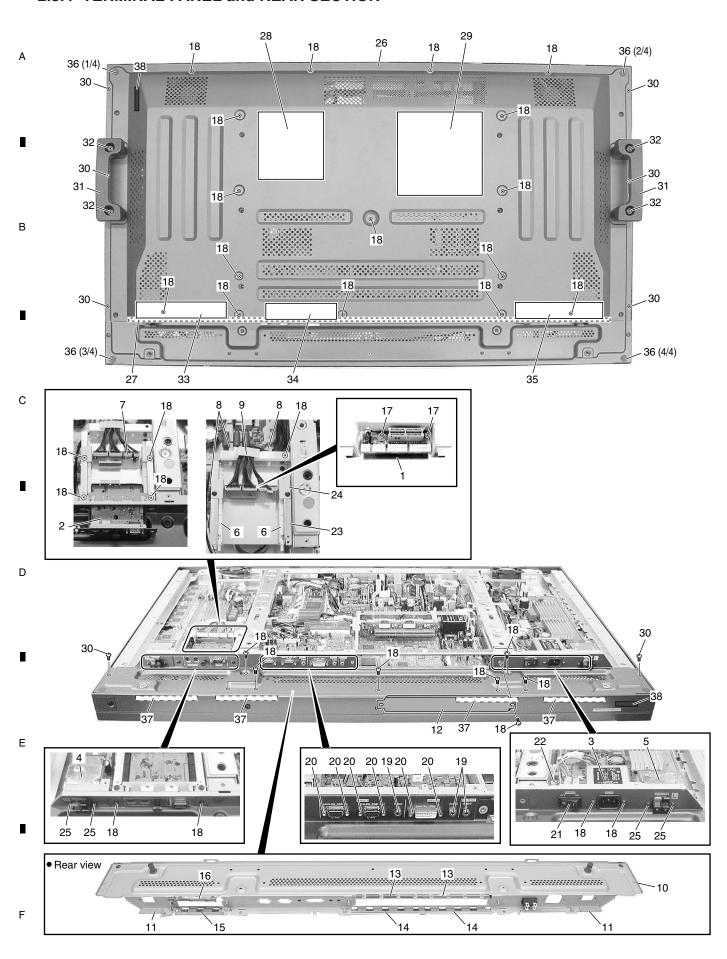
В Upper side 16 16 Rear view 6 Ε 12 Bottom view

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2.3.4 TERMINAL PANEL and REAR SECTION

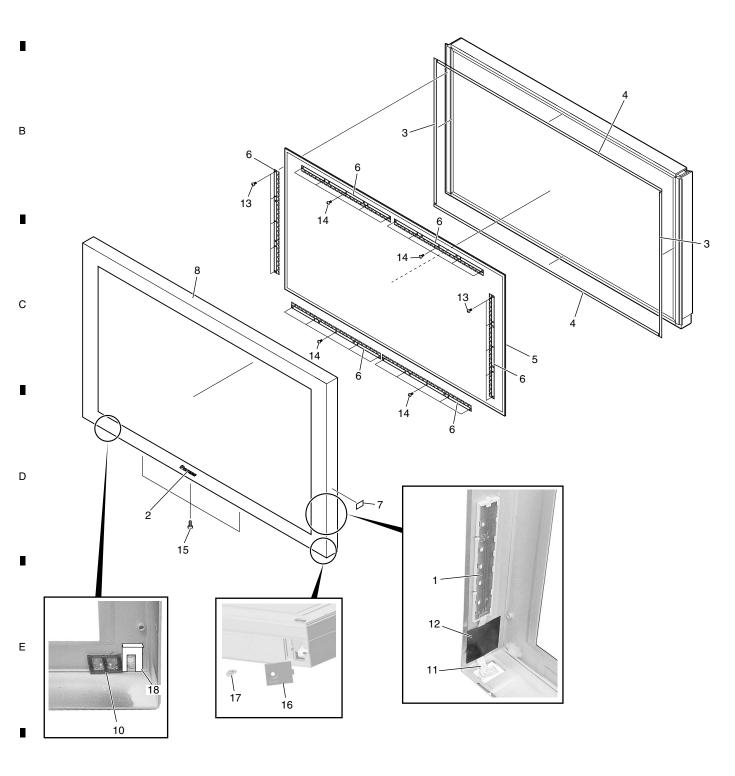


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Mark No	o. Desc	ription	Part No.
1	COMM SL	OT I/F Assy	AWZ6980
2	COMM SL	OT Assy	AWZ6849
<u> </u>	AC Inlet (C	N1)	AKP1244
4	SP TERMI	NAL R Assy	AWZ6857
5	SP TERMI	NAL L Assy	AWZ6856
6			AEC1994
7		g Wire (J108)	ADX2911
8		le	AEC1745
9			AEC1884
10	0 Terminal Page	anel (43M)	ANG2733
1.	1 Gasket SP	-T	ANK1750
12			ANG2610
13			ABK1033
14		•	ABK1032
15	-		ABK1034
16		B92	ABK1035
17			VBB30P080FNI
18			AMZ30P060FTB
19			ABN1040
20	0 Hexagon H	lead Screw	BBA1051
<u>^</u> 2	1 Power Swit	tch (S1)	ASG1094
22		rire (MX)(J116)	ADX2896
23	_		ANG2605
24		-	ANG2606
2		,	APZ30P060FTB
26	6 Rear Case	(43M)	ANE1624
27			ANK1754
NSP 28		el (434CMX)	AAL2529
29		bel	AAX3048
30	0 Screw		TBZ40P080FTB
3.	1 Grip		AMR3380
32			HMB50P140FTB
33		abel R (50M2)	AAX3050
34			AAX3064
35			AAX3064 AAX3062
0.	o ioiiiiiiai Li		. 0.0002
36	6 Rear Corne	er Label (15)	AAX3081
37	7 Spacer		AMR3433
38	8 Serial Shee	et	AAX3143

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1 PDP-504CMX/1
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•	5	6	-	7	-	8	
	SECTION parts List						
Mark No		Part No.					
1		AWZ6852					
2		AAM1101					Α
3	, ,	AED1254					
4	, ,	AED1253					
⚠ 5	Protect Panel Assy (43)	AMR3345					
NSP 6	Panel Holder (43)	ANG2552					
7	, ,	AAX2836					
8		AMB2790					
9		7 (WIDE 7 OO					
10		AEB1400					
	J						
11	Flexible Cable (J211)	ADD1265					В
12		AEH1074					
13	Screw	ABZ30P060FTC					
14	Screw	APZ30P080FTB					
15	Screw	APZ30P120FTB					
16		AMR3394					
17		AEC1877					
18	Earth Plate (MX)	AMR3432					
							С
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2.3.6 PANEL CHASSIS (43) ASSY (AWU1112) Panel Chassis (43) Assy (AWU1112) Parts List

• Parts List

Α	Mark No.	<u>Description</u>	Part No.
	NSP	143 ADDRESS Assy	AWV2076
	NSP	243 ADDRESS Assy	AWZ6862
	NSP	143 SCAN FUKUGO Assy	AWV2079
ı	NSP	243 SCAN A Assy	AWZ6873
	NSP	243 SCAN B Assy	AWZ6874
	NSP	2X CONNECTOR A Assy	AWZ6875
	NSP	2X CONNECTOR B Assy	AWZ6876
	NSP	Address Module (IC1-IC30)	AXF1126
В	NSP	Plasma Panel Assy (43")(V1)	AAV1248
	NSP	FPC (43XGA-X)	ADY1079
	NSP	FPC (43XGA-Y)	ADY1080
	NSP	Chassis Assy (435)	ANA1802
		Edge Card Spacer	AEC1998
-		PCB Spacer	AEC1944
		PCB Support	AEC1958
		Rivet	AMR1066
		FC Spacer	AMR3370
С			
•	NSP	Adhesive	ZBA-KE3424S
	NSP	Cleaner	ZLX-AP7
	NSP	Tape	ZTA-8101-12
	NSP	Double Faced Tape	ZTB-5015-18
_	NSP	Tape	ZTC-POLYCA-11
	NCD	Tono	ZTC DOLVCA 00
	NSP	Tape	ZTC-POLYCA-20 ZTB-5015-9
	NSP	Tape	
	NSP	Tape Silicon Rubber	ZTC-900UL-15
	NSP		ZTX-HC20-15 ZTX-MX100-13
D	NSP	Wiping Cloth	Z1X-WX100-13
	NSP	Film	ZTX-2102Y35-2R5
	NSP	Film	ZTX-2102Y45-2R5
	NSP	Film	ZTX-2102Y45-5
_	NSP	Silicon Rubber	ZTX-HC50-15
	NSP	Silicon Rubber	ZTC-EM7KBOR85T-15W

Е

2.3.7 PDP SERVICE ASSY (AWU1115) PDP SERVICE Assy (AWU1115)

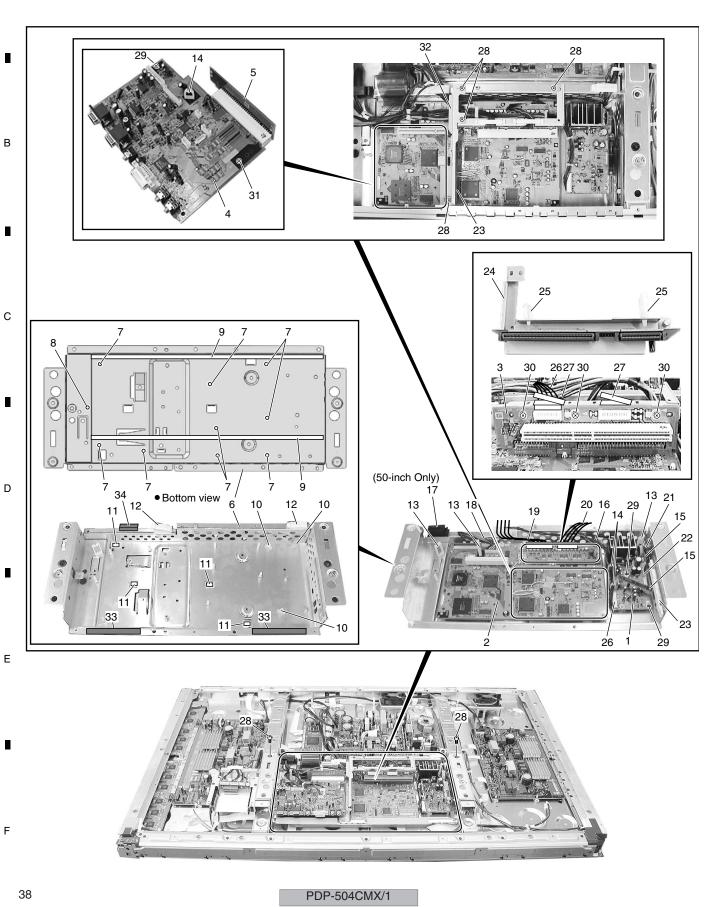
• Parts List

Mark No.	<u>Description</u>	Part No.	Α
NSP	P. Chassis (43) Assy	AWU1112	
NSP	Front Chassis H (43)	ANA1714	
	F. Chassis VL (43M)	ANA1755	
	F. Chassis VR (43M)	ANA1756	
	Sub Frame L Assy (43M)	ANG2613	_
	Sub Frame R Assy (43M)	ANG2628	
	Rear Frame (43M)	ANG2625	
NSP	SVC.Terminal P434CMX	ANG2701	
	Wire Saddle	AEC1745	
	PCB Support	AEC1938	В
	PCB Spacer	AEC1941	
	PCB Spacer	AEC1947	
	Wire Clip	AEC1948	
	Wire Clip	AEC1992	
	Panel Cushion H (43M)	AED1253	-
	Panel Cushion V (43M)	AED1254	
	Front Spacer (CMX)	AMR3384	
	Y Drive Protect Sheet	AMR3346	_
	Enclosure Sheet 1	AMR3405	С
	Enclosure Sheet 2 (V)	AMR3411	
	Front Case Spacer	AMR3430	
	Cable Gard	AMR3439	
	Caution Label	AAX3031	
NSP	Drive Voltage Label	ARW1097	
	Screw	ABZ30P060FTC	
	Screw	AMZ30P060FTB	
	Screw	AMZ30P080FTC	D
	Screw	BPZ30P080FTB	D
	Screw	APZ30P120FTB	
	Screw	TBZ40P080FTB	
	Screw	VBB30P080FNI	_
	Screw	PMB30P060FNI	
NSP	Front Case (434CMX SVC)	AMB2840	
	Rear Case (43M)	ANE1624	
	Pad	AHA2282	
	Pad	AHA2283	E
	Carton	AHD3100	
NSP	Upper Carton 434CMX S	AHD3257	
	Protect Sheet	AHG1331	
	Sel Plate	ANG2712	
	HL18	AEC1980	
	Card Spacer	AEC2013	
	Gasket FC-T	ANK1757	

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2.4 MULTI BASE SECTION for PDP-504CMX and PDP-434CMX models 2.4.1 MULTI BASE SECTION

Note: This illustration is 50 inch model.



MULTI BASE SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	AUDIO AMP Assy	AWZ6848	18	10/11P Housing Wire (J110)	See Contrast table(2)	
2	RGB Assy	AWZ6992	19	10P Housing Wire (J113)	ADX2908	Α
3	VIDEO SLOT I/F Assy	AWZ6851	20	12P Housing Wire (J112)	ADX2892	
4	AV I/O Assy	See Contrast table(2)				
5	AV I/O I/F Assy	AWZ6859	21	13P/6P Housing Wire (J104)	ADX2910	
			22	COVER Assy	AWZ6858	
NSP 6	Multi Base (CMX)	ANA1757	23	Guide Rail EX	AEC1994	
NSP 7	PCB Holder	AEC1088	24	Slot Stay	ANG2608	
8	PCB Spacer	AEC1991	25	Wire Saddle	AEC1745	
9	Gasket C-M	ANK1752				
10	Locking Card Spacer	AEC1429	26	11P Housing Wire (J111)	See Contrast table(2)	
			27	Flat Clamp	AEC1879	
11	Ground Finger	ANG2468	28	Screw	AMZ30P060FTB	В
12	Clamp	AEC1884	29	Screw	PMB30P060FNI	
13	Wire Saddle	AEC1989	30	Screw	VBB30P080FNI	
14	Mini Clamp	AEC1971				
15	Double Locking Spacer	AEC1988	31	Pin Grommet	AEC1015	
			32	Video Stay	ANG2607	_
16	15P/16P Housing Wire (J106)	ADX2907	33	Gasket M-T150	See Contrast table(2)	
17	Cable Clamp	See Contrast table(2)	34	Shield Sheet	AEC2004	

(2) CONTRAST TABLE PDP-504CMX/LUC/1 and PDP-434CMX/LUC/1 are constructed the same except for the following:

	Mark	No.	Symbol and Description	PDP-504CMX/ LUC/1	PDP-434CMX/ LUC/1
Ī		4	AV I/O Assy	AWZ6847	AWZ6894
		17	Cable Clamp	AEC1707	Not used
		18	10/11P Housing Wire (J110)	ADX2890	ADX2912
		26	11P Housing Wire (J111)	ADX2891	ADX2913
		33	Gasket M-T150	ANK1753	ANK1755

39

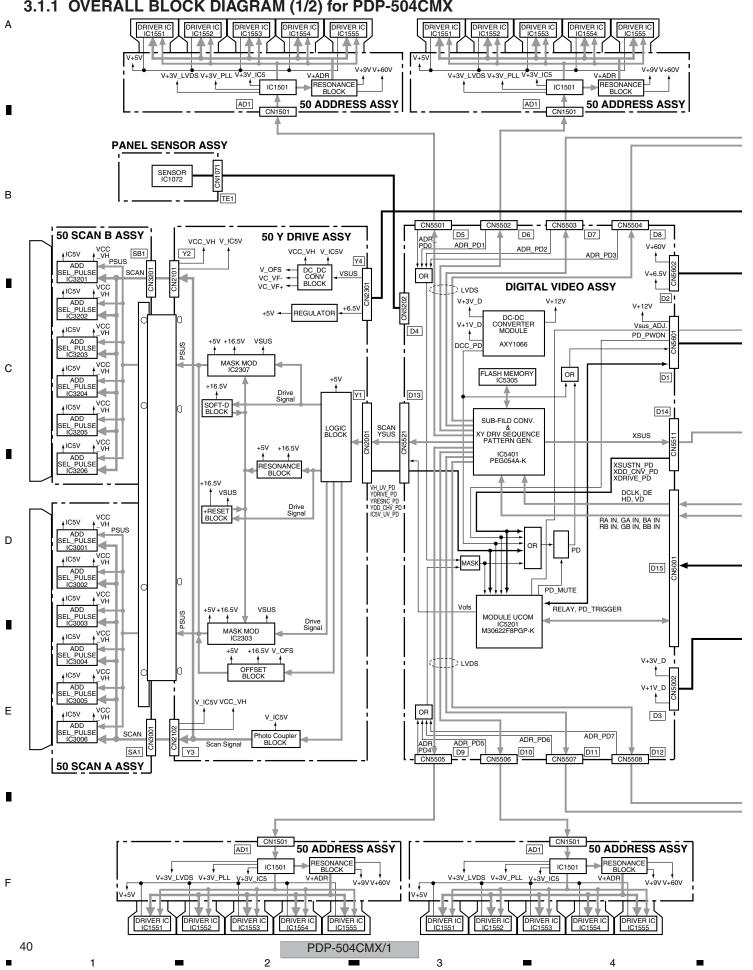
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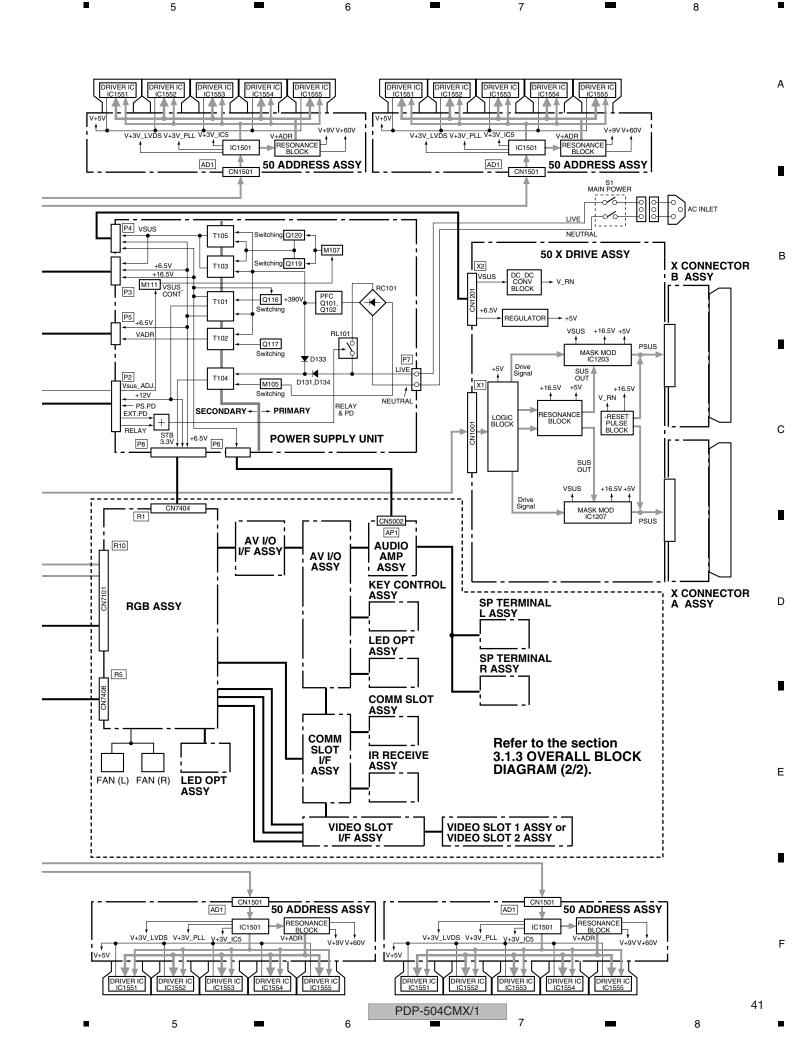
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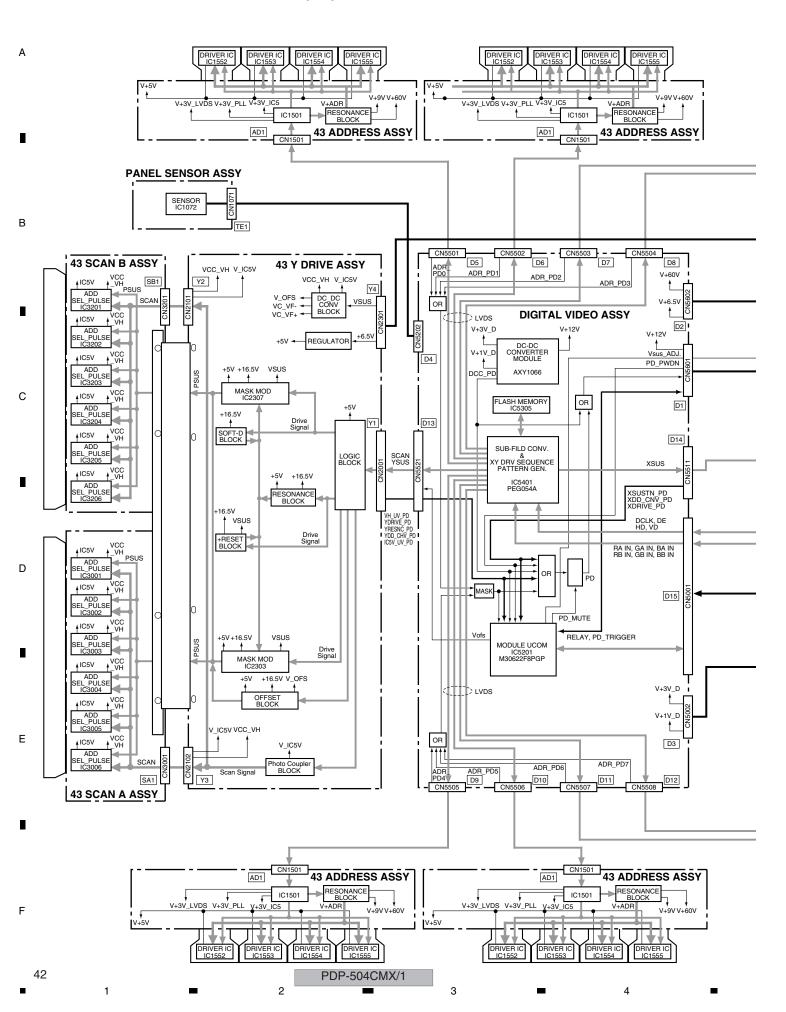
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

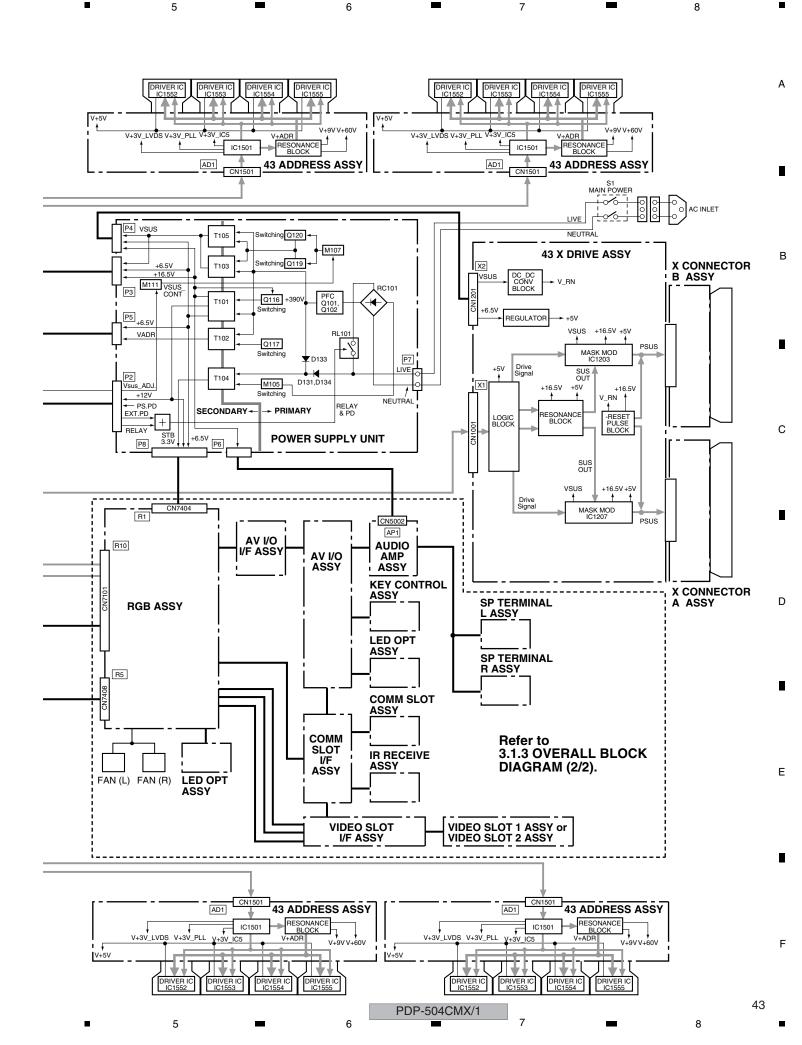
3.1 BLOCK DIAGRAM

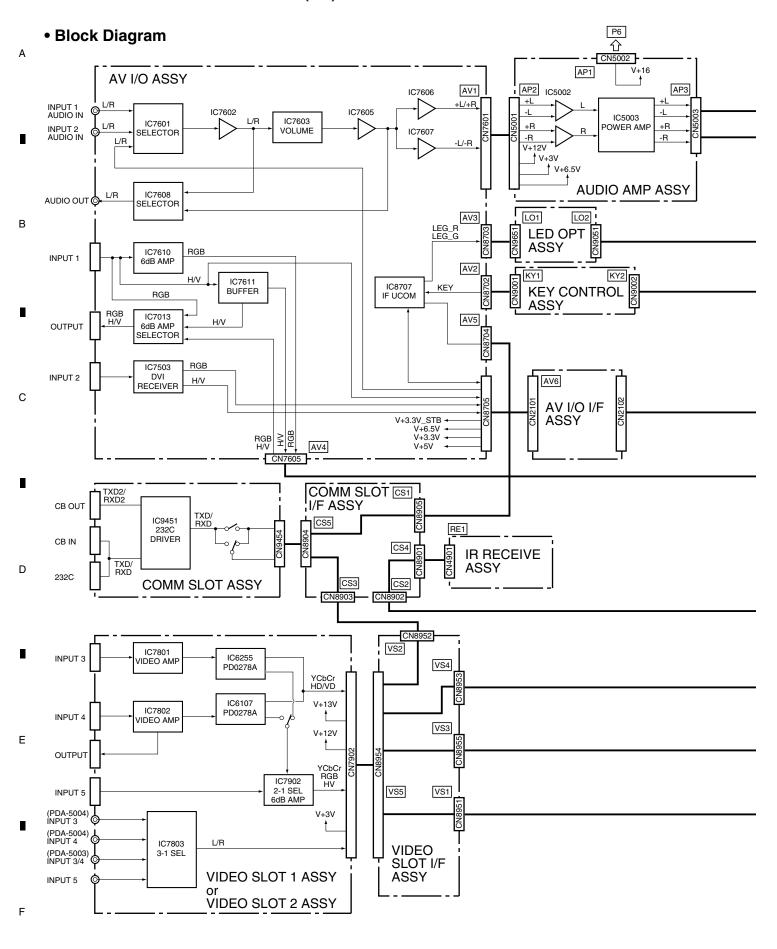
3.1.1 OVERALL BLOCK DIAGRAM (1/2) for PDP-504CMX





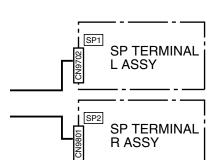


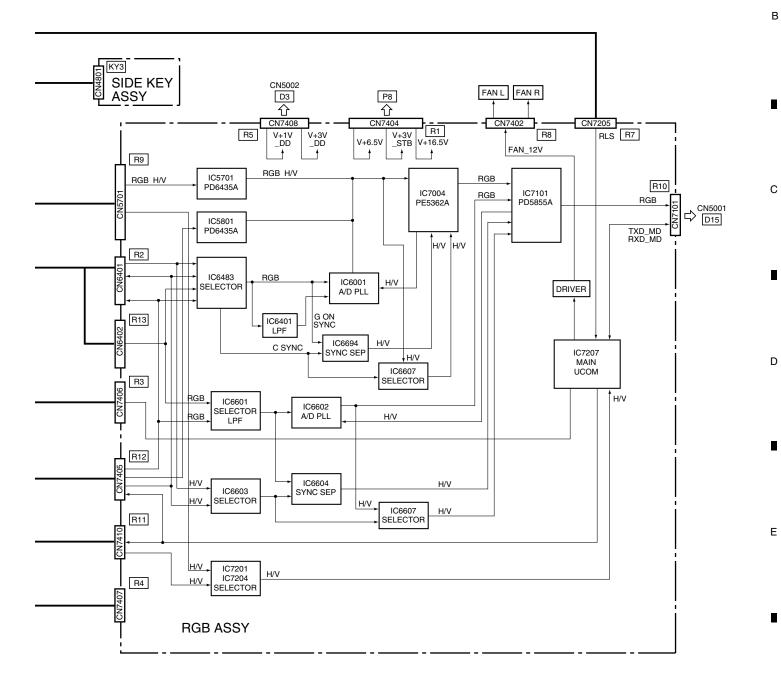




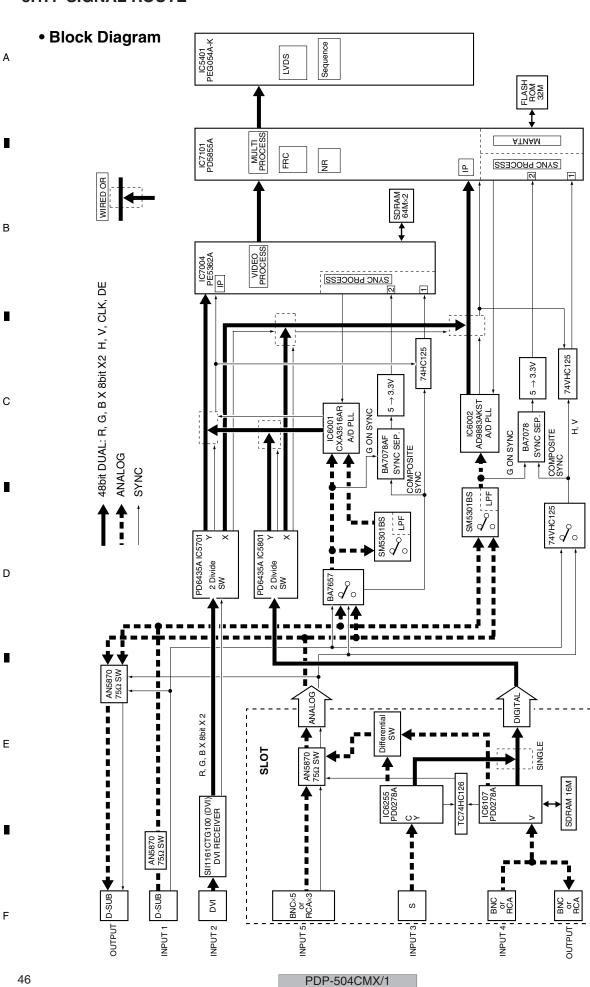
44

PDP-504CMX/1

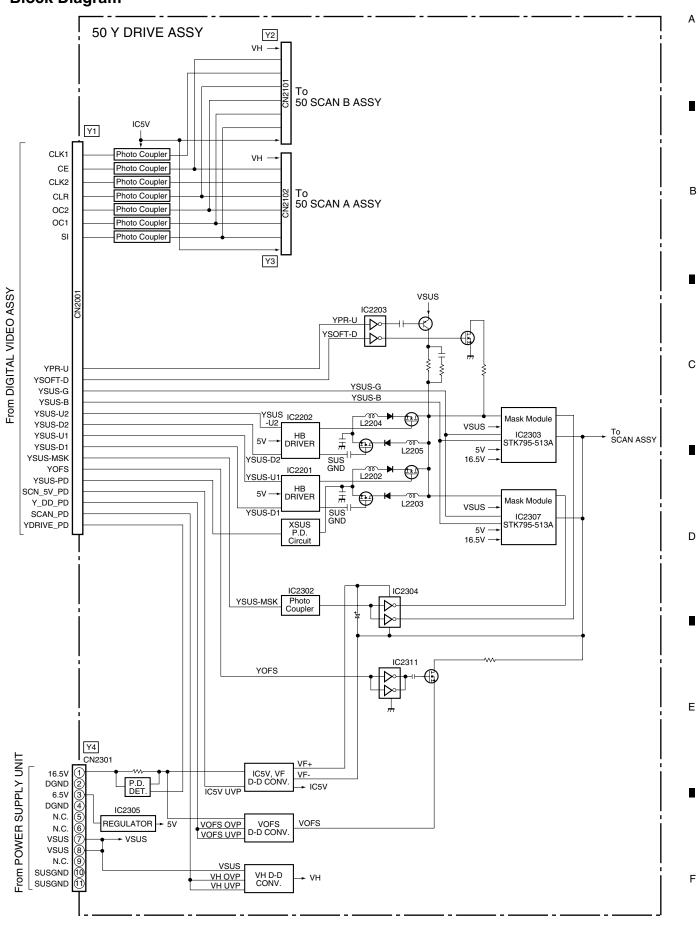




PDP-504CMX/1 7

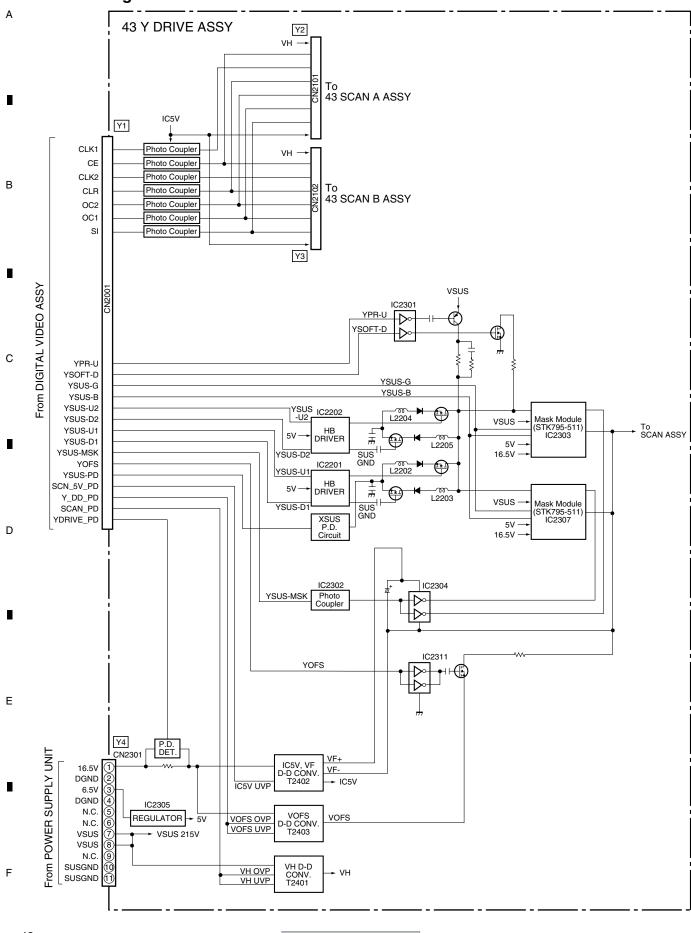


• Block Diagram



PDP-504CMX/1

Block Diagram



PDP-504CMX/1

• Block Diagram

N.C.

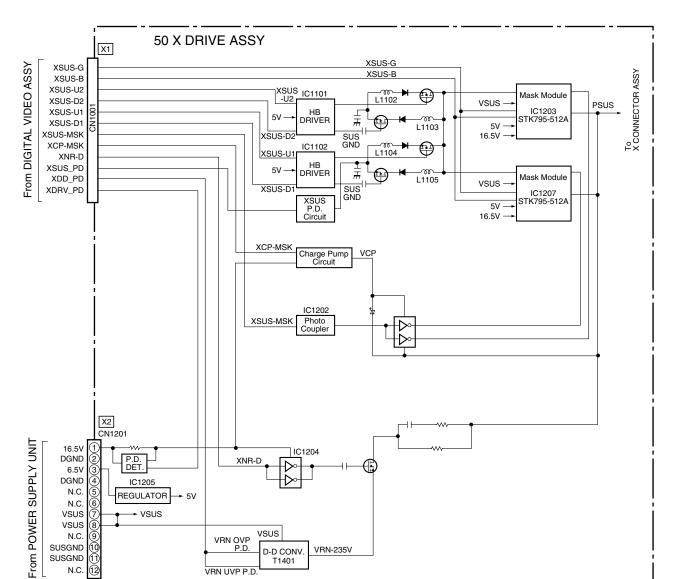
В

С

D

Ε

8



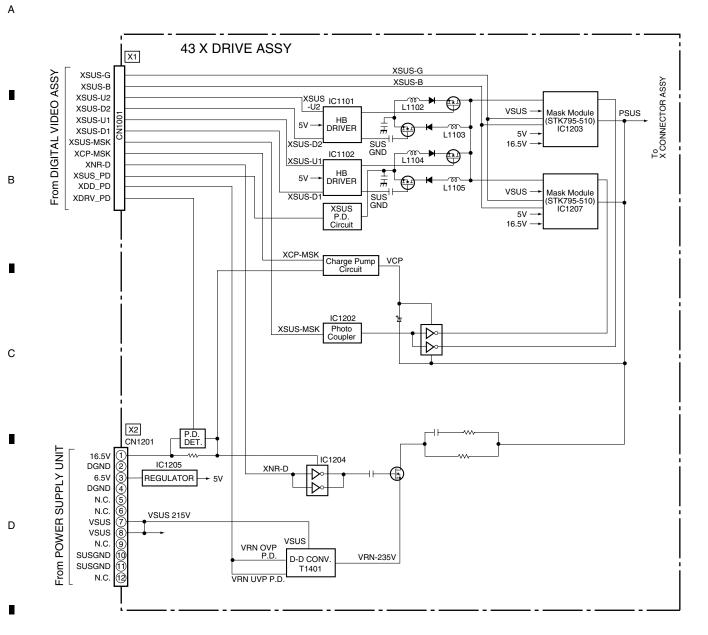
49

8

5

VRN UVP P.D

• Block Diagram



50

Ε

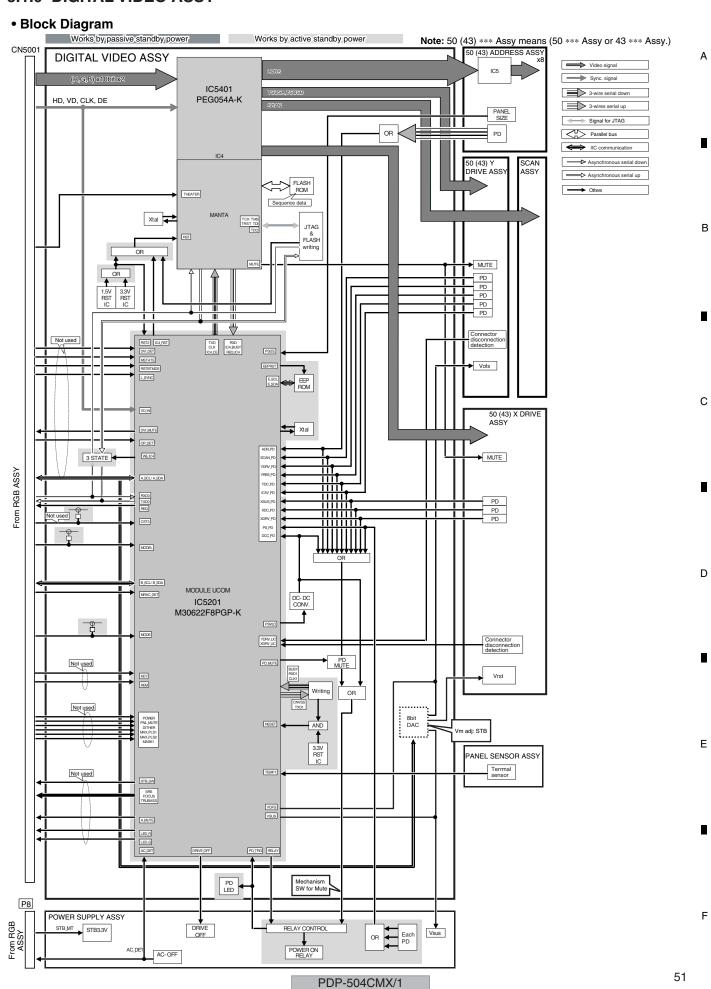
PDP-504CMX/1

2

3

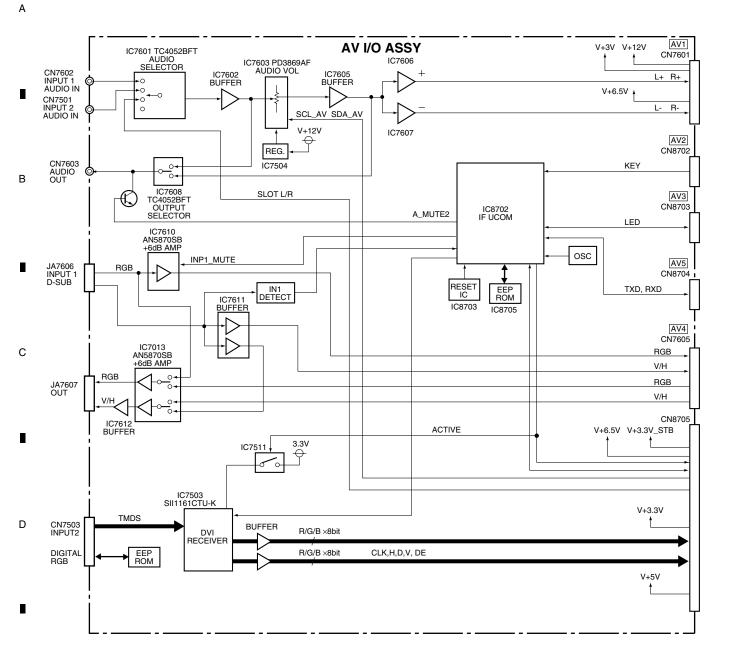
_

3.1.9 DIGITAL VIDEO ASSY



2

Block Diagram



52

Ε

PDP-504CMX/1

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В

С

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53

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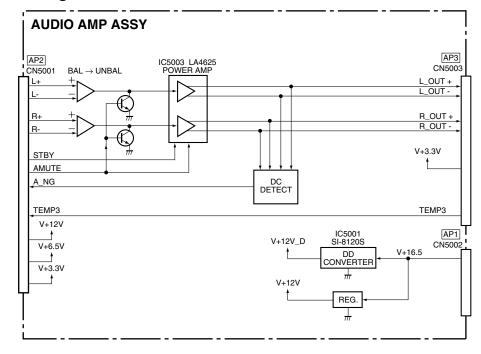
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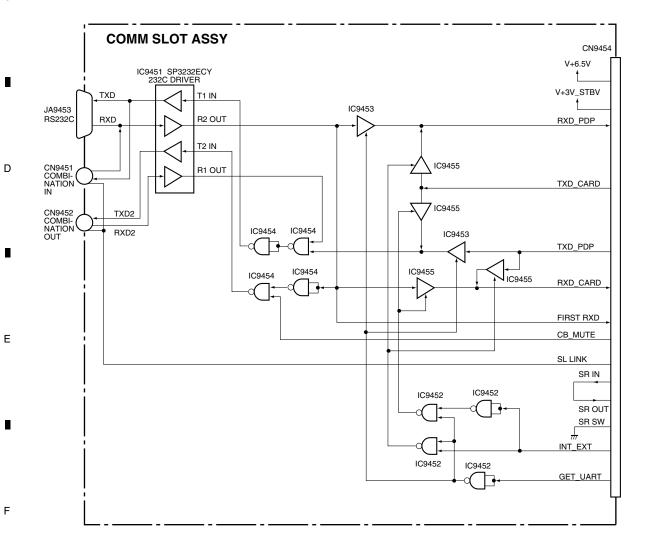
3.1.12 AUDIO AMP and COMM SLOT ASSYS

• Block Diagram

Α

В





54

PDP-504CMX/1

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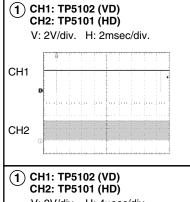
В

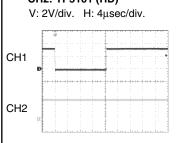
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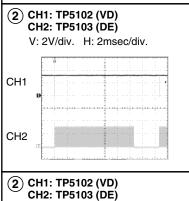
D

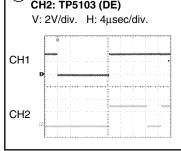
Ε

DIGITAL VIDEO ASSY (4/6) • DIGITAL I/F BLOCK

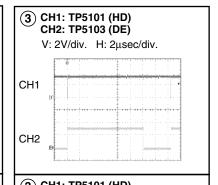


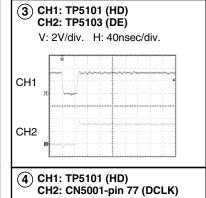


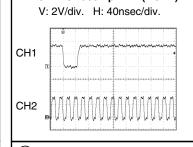


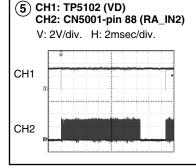


5









55

8

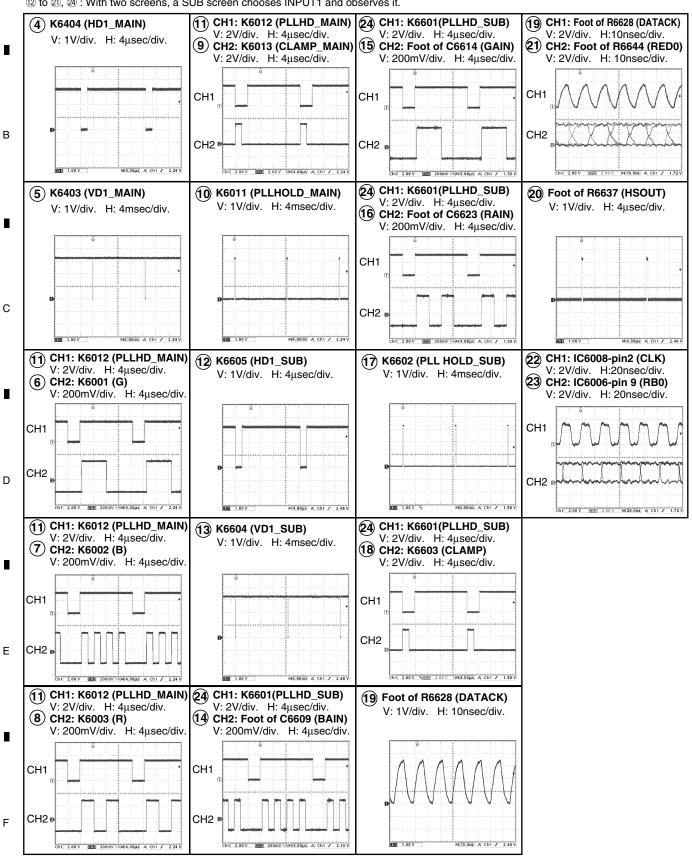
F

RGB ASSY (2/10, 3/10, 4/10) MAIN AD BLOCK, MAIN LPF BLOCK, SUS LPF&AD BLOCK

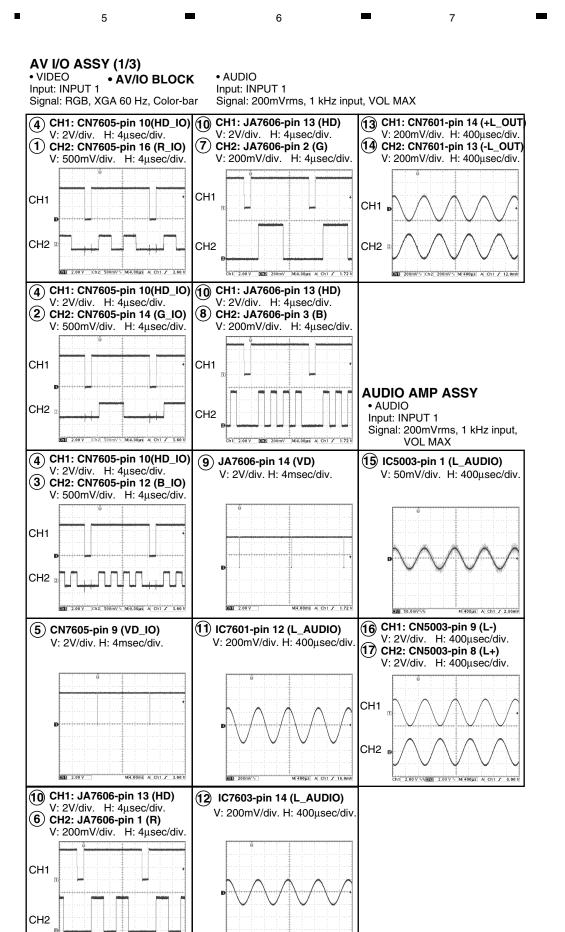
Input: INPUT 1

Signal: RGB, XGA 60 Hz, Color-bar

② to ②, ② : With two screens, a SUB screen chooses INPUT1 and observes it.



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В

С

D

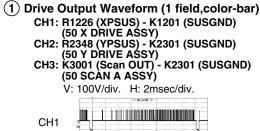
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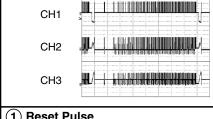
M 400μs A Ch1 J 12.0m

M4.00us A Ch1 £ 1.72

• 50 (43) X SUS BLOCK, 50 (43) Y LOGIC BLOCK, 50 (43) Y SUS BLOCK

Note: 50 (43) *** Assy means (50 *** Assy or 43 *** Assy.)

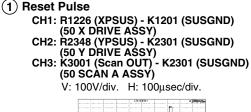


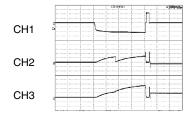


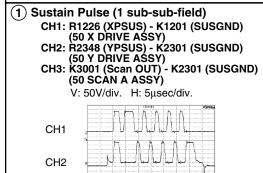
В

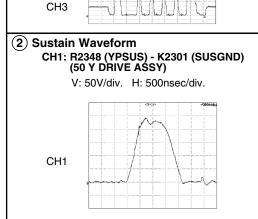
D

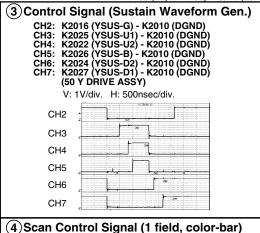
Ε

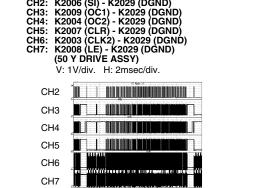




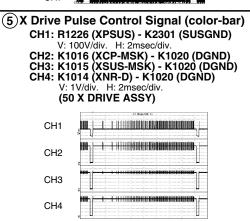


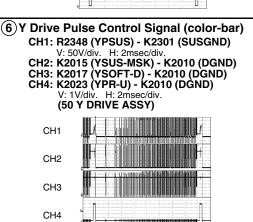






CH2: K2006 (SI) - K2029 (DGND)



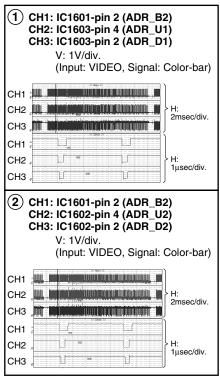


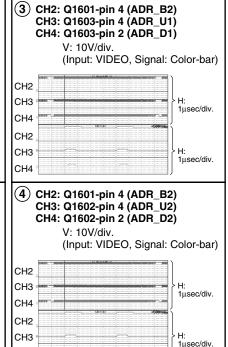
50 (43) ADDRESS ASSY

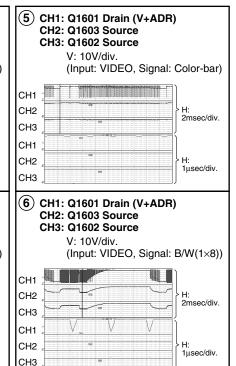
5

• ADR RESONANCE BLOCK (VIDEO and PC)

Note: 50 (43) *** Assy means 50 *** Assy or 43 *** Assy.







В

С

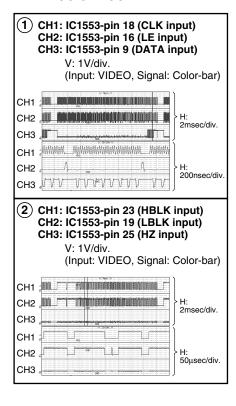
D

Ε

F

50 ADDRESS ASSY

• ADR LOGIC BLOCK

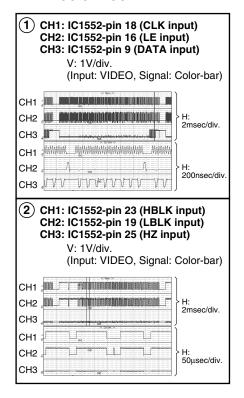


5

43 ADDRESS ASSY

• ADR LOGIC BLOCK

CH4



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3.3 VOLTAGES

• Voltages
DIGITAL VIDEO ASSY

CN5601 (D1)

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	+12V	ı	+12V power input	+12VDC
2	+12V	ı	+12V power input	+12VDC
3	GND_D	_	GND	
4	GND_D	_	GND	
5	PD	0	Power down signal	0VDC
6	VSUS_ADJ	0	VSUS adjustment signal	
7	PS_PD	I	Power-down detecting signal of POWER SUPPLY block	0VDC
8	RELAY	0	Relay control signal	+3.3VDC
9	DRF	0	Drive control signal	0VDC
10	AC_DET	Ī	Primary side power (AC) state output at panel side	+3.0VDC
11	PD_TRIGGER	I	Power down trigger	+3.3VDC

3

2

CN5602 (D2)

В

С

No.	Signal Name	I/O	Signal Description	Voltages at NTSC Signal Input
1	VADR	ı	Address drive power (+61V) input	+61VDC
2	VADR	ı	Address drive power (+61V) input	+61VDC
3	N.C		Not connected	
4	GND_ADR	_	GND	
5	GND_ADR	_	GND	
6	+6.5V	ı	+6.5V power input	+6.8VDC
7	GND_D	_	GND	

60

Е

RGB ASSY

POWER SUPPLY ASSY

	R1 (CN7404)	Voltage	P8	
No.	Name	(V)	Name	No.
1	V+16.5V	16.7	V+16.5V	1
2	GND	0	GND	2
3	V+12V	12.9	V+12V	3
4	V+12V	12.9	V+12V	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+6.5V	6.8	V+6.5V	7
8	V+6.5V	6.8	V+6.5V	8
9	GND	0	GND	9
10	GND	0	GND	10
11	V+3V_STB	3.3	V+3V_STB	11
12	GND	0	GND	12
13	AC_DET	3.3	AC_DET	13

RGB ASSY

AV I/O ASSY

	R2 (CN6401)	Voltage	AV4 (CN7605)	
No.	Name	(V)	Name	No.
1	VD_SLOT	0	VD_SLOT	1
2	HD_SLOT	0	HD_SLOT	2
3	GNDD	0	GNDD	3
4	B_SLOT	0	B_SLOT	4
5	GNDD	0	GNDD	5
6	G_SLOT	0	G_SLOT	6
7	GNDD	0	GNDD	7
8	R_ SLOT	0	R_ SLOT	8
9	VD_IO	5	VD_IO	9
10	HD_IO	4.5	HD_ IO	10
	R13 (CN6402)			
1	GNDD	0	GNDD	11
2	B_ IO	0	B_ IO	12
3	GNDD	0	GNDD	13
4	G_ 10	0	G_IO	14
5	GNDD	0	GNDD	15
6	R_IO	0	R_ IO	16

RGB ASSY

COMM SLOT I/F ASSY

	R3 (CN7406)	Voltage	CS2 (CN8902)	
No.	Name	(V)	Name	No.
1	V+5V_STB	5.1	V+5V_STB	1
2	GND	0	GND	2
3	V+3V_STB	3.3	V+3V_STB	3
4	CYOBI1	3.3	CYOBI1	4
5	CYOBI2	0	CYOBI2	5
6	CYOBI3	0	CYOBI3	6
7	GND	0	GND	7
8	SR_OUT	4.9	SR_OUT	8
9	SLOT_ST_COM	3.3	SLOT_ST_COM	9
10	V+6V	6.8	V+6V	10
11	NC	0	NC	11

RGB ASSY

VIDEO SLOT I/F ASSY

8

	R4 (CN7407)	Voltage	VS1 (CN8951)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	V+13V	13.6	V+13V	3
4	V+13V	13.6	V+13V	4
5	V+12V	12.9	V+12V	5
6	V+12V	12.9	V+12V	6
7	GND	0	GND	7
8	V+3V_STB	3.3	V+3V_STB	8
9	GND	0	GND	9
10	V+3V_DD	3.3	V+3V_DD	10
11	V+3V_DD	3.3	V+3V_DD	11
12	GND	0	GND	12

RGB ASSY

DIGITAL VIDEO ASSY

В

С

D

Е

	R5 (CN7408)	Voltage	D3 (CN5002)	
No.	Name	(V)	Name	No.
1	V+1V_DD	1.4	V+1V_DD	1
2	V+1V_DD	1.4	V+1V_DD	2
3	V+1V_DD	1.4	V+1V_DD	3
4	GND	0	GND	4
5	GND	0	GND	5
6	GND	0	GND	6
7	V+3V_DD	3.3	V+3V_DD	7
8	V+3V_DD	3.3	V+3V_DD	8
9	GND	0	GND	9
10	GND	0	GND	10
11	NC			
12	NC			

RGB ASSY

LED OPT ASSY (OPT)

R7 (CN7205)		Voltage	LO2 (CN9051)	
No.	Name	Voltage (V)	Name	No.
1	3.3V	3.3	3.3V	1
2	RLS	0-3.3	RLS	2
3	GND	0	GND	3
4	GND	0	GND	4

RGB ASSY

FAN (L), (R)

	R8 (CN7402)	Voltage	FAN (L)	
No.	Name	(V)	Name	No.
1	FAN_12V	0	FAN_12V	1
2	FAN_NG	3.2	FAN_NG	2
3	GND	0	GND	3
			FAN (R)	
4	FAN_12V	0	FAN_12V	1
5	FAN_NG	3.2	FAN_NG	2
6	GND	0	GND	3
7	NC			

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RGB ASSY

Α

В

С

No.	R9 (CN5701) Name	\dashv		
AV	I/O IF ASSY	+	AV I/O A	'SS
T	CN2102, AV6 (CN2101)	Voltage (V)	CN8705	٦.,
No.	Name N.C.	1	Name N.C.	No 10
	N.C.	0	N.C.	10
3		0		10
4	A_R_SLOT GND	0	A_R_SLOT GND	10
5	A_L_SLOT	0	A_L_SLOT	10
6	GND	0	GND	10
7	V+12V	12.9	V+12V	10
8	GND	0	GND	10
9	1N1_HD	4.4	1N1_HD	10
10	1N1_VD	4.8	1N1_VD	1
11	WE_ROM_B	0	WE_ROM_B	1
12	KEY	3.3	KEY	1
13	IO_YOBI2	0	IO_YOBI2	1
14	SR_OUT	5	SR_OUT	1
15	RXD_IF	3.3	RXD_IF	1
16	CLK_IF	3.3	CLK_IF	1
17	RXD_WR	3.3	RXD WR	1
18	REQ_IF	0	REQ_IF	1
19	RST IF	0	RST_IF	1
20	IF_CE	3.2	IF_CE	12
21	HOT_P1	0	HOT_P1	12
22	HDMI2_SDA	0	HDMI2_SDA	12
23	HDMI_INT1	3.2	HDMI_INT1	12
24	SCL_AV	3.3	SCL_AV	12
25	HDMI_AUDIO_CLK	0	HDMI_AUDIO_CLK	12
26	D_AUDIO_SEL	0	D_AUDIO_SEL	12
27	CEC2	0	CEC2	12
28	GND	0	GND	12
29	HD_DVI	0	HD_DVI	12
30	DE DVI	0	DE_DVI	1:
31	GND	0	GND	13
32	RB_DVI7	0/3.3	RB DVI7	13
33	RB_DVI6	0/3.3	RB DVI6	13
34	RB_DVI4	0/3.3	RB_DVI4	1:
35	RB_DVI2	0/3.3	RB_DVI2	13
36	RB_DVI0	0/3.3	RB_DVI0	13
37	GB_DVI6	0/3.3	GB_DVI6	13
38	GB_DVI4	0/3.3	GB_DVI4	13
39	GB_DVI2	0/3.3	GB_DVI2	13
40	GB DVI0	0/3.3	GB_DVI0	14
41	BB_DVI6	0/3.3	BB_DVI6	14
42	BB_DVI4	0/3.3	BB_DVI4	14
43	BB_DVI2	0/3.3	BB_DVI2	14
44	BB_DVI2	0/3.3	BB_DVI0	14
45	RA_DVI7	0/3.3	RA_DVI7	14
46	RA_DVI7	0/3.3	RA_DVI7	14
47	RA_DVI3	0/3.3	RA_DVI3	14
48	RA_DVI3	0/3.3	RA_DVIS	14
48	GND	0/3.3		14
52	GA_DVI7	0/3.3	GND GA_DVI7	1:
				+
53	GA_DVI5	0/3.3	GA_DVI3	15
54	GA_DVI3	0/3.3	GA_DVI3	15
55	GA_DVI1 BA_DVI7	0/3.3	GA_DVI1 BA_DVI7	1:

RGB ASSY

No.	R9 (CN5701)	\dashv		
No.	Name			
AV I/	O IF ASSY		AV I/O A	SS
C	N2102, AV6 (CN2101)	Voltage	CN8705	_
No.	Name	(V)	Name	N
57	BA_DVI5	0/3.3	BA_DVI5	1
58	BA_DVI3	0/3.3	BA_DVI3	1
59	GND	0	GND	1
60	V+5V_A2	5	V+5V_A2	1
61	N.C.	0	N.C.	1
62	N.C.	0	N.C.	1
101	N.C.	0	N.C.	\perp
102	N.C.	0	N.C.	\perp
103	A_MUTE	0	A_MUTE	\perp
104	TEMP3	0Å`3.3	TEMP3	\perp
105	V+6V	6.8	V+6V	\perp
106	GND	0	GND	\perp
107	V+3V_A1	3.3	V+3V_A1	\perp
108	GND	0	GND	\perp
109	V+3V_UCOM	3.3	V+3V_UCOM	1
110	GND	0	GND	1
111	V+3VSTB	3.3	V+3VSTB	1
112	IO_YOBI1	0	IO_YOBI1	1
113	PN2	0	PN2	1
114	ACTIVE	3.2	ACTIVE	1
115	TXD_IF	3.3	TXD_IF	
116	TXD_WR	3.3	TXD_WR	1
117	AC_DET	3	AC_DET	
118	IF_BUSY	0	IF_BUSY	1
119	RESET	3.3	RESET	
120	HDMI_AUDIO_CE	0	HDMI_AUDIO_CE	1
121	HOT_P2	0	HOT_P2	1
122	HDMI2_SCL	0	HDMI2_SCL	1
123	SDA_AV	3.2	SDA_AV	1
124	HDMI_INT2	3.2	HDMI_INT2	1
125	HDMI_AUDIO_TXD	0	HDMI_AUDIO_TXD	
126	CEC1	2	CEC1	
127	RESETX1	3.3	RESETX1	
128	VD_DVI	0	VD_DVI	
129	GND	0	GND	1
130	CLK_DVI	0	CLK_DVI	
131	GND	0	GND	
132	GND	0	GND	
133	RB_DVI5	0/3.3	RB_DVI5	
134	RB_DVI3	0/3.3	RB_DVI3	
135	RB_DVI1	0/3.3	RB_DVI1	
136	GB_DVI7	0/3.3	GB_DVI7	
137	GB_DVI5	0/3.3	GB_DVI5	
138	GB_DVI3	0/3.3	GB_DVI3	
139	GB_DVI1	0/3.3	GB_DVI1	;
140	GND	0	GND	
141	BB_DVI6	0/3.3	BB_DVI6	
142	BB_DVI4	0/3.3	BB_DVI4	-
143	BB_DVI2	0/3.3	BB_DVI2	-
144	BB_DVI0	0/3.3	BB_DVI0	1
145	RA_DVI6	0/3.3	RA_DVI6	1
146	RA_DVI4	0/3.3	RA_DVI4	1
147	RA_DVI2	0/3.3	RA_DVI2	4
148	RA_DVI0	0/3.3	RA_DVI0	1

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PDP-504CMX/1

RGB ASSY

	R9 (CN5701)			
No.	Name			
ΑV	I/O IF ASSY		AV I/O A	SSY
	CN2102, AV6 (CN2101)	Voltage	CN8705	
No.	Name	(V)	Name	No.
149	GND	0	GND	49
152	GA_DVI6	0/3.3	GA_DVI6	52
153	GA_DVI4	0/3.3	GA_DVI4	53
154	GA_DVI2	0/3.3	GA_DVI2	54
155	GA_DVI0	0/3.3	GA_DVI0	55
156	BA_DVI6	0/3.3	BA_DVI6	56
157	BA_DVI4	0/3.3	BA_DVI4	57
158	BA_DVI2	0/3.3	BA_DVI2	58
159	BA_DVI1	0/3.3	BA_DVI1	59
160	BA_DVI0	0/3.3	BA_DVI0	60
161	NC	0	NC	61
162	NC	0	NC	62

RGB ASSY VIDEO SLOT I/F ASSY

KG	BASSY		VIDEO SLOT I/F	ASSY
	R11 (CN7410)	Voltage	VS3 (CN8955)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	EMGREQ1_V	0	EMGREQ1_V	3
4	EMGREQ2_V	0	EMGREQ2_V	4
5	IC1V_OE	3.3	IC1V_OE	5
6	RESETX1	3.3	RESETX1	6
7	GND	0	GND	7
8	SD_SEL	3.3	SD_SEL	8
9	FNC2	0	FNC2	9
10	FNC3	0	FNC3	10
11	SOUND1	3.3	SOUND1	11
12	GND	0	GND	12
13	DSUBR	3.77	DSUBR	13
14	GND	0	GND	14
15	DSUBG	0	DSUBG	15
16	GND	0	GND	16
17	DSUBB	3.8	DSUBB	17
18	GND	0	GND	18
19	GND	0	GND	19
20	IN5_HD	0	IN5_HD	20
21	GND	0	GND	21
22	SOUSA_X	3.3	SOUSA_X	22
23	VYOBI1	0	VYOBI1	23
24	VYOBI2	0	VYOBI2	24
25	DSUBSW_DET	0	DSUBSW_DET	25
26	GND	0	GND	26
27	GND	0	GND	27
28	GND	0	GND	28
29	EMGREQ1_S	0	EMGREQ1_S	29
30	EMGREQ2_S	0	EMGREQ2_S	30
31	IC1S_OE	0	IC1S_OE	31
32	SLOT_ST3	0.4	SLOT_ST3	32
33	M_CHOICE	0	M_CHOICE	33
34	SOUND2	0	SOUND2	34
35	GND	0	GND	35
36	GND	0	GND	36
37	DSUBH	4.5	DSUBH	37

RGB ASSY

VIDEO SLOT I/F ASSY

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	R11 (CN7410)	Voltage	VS3 (CN8955)	
No.	Name	(V)	Name	No.
38	GND	0	GND	38
39	GND	0	GND	39
40	DSUBV	5	DSUBV	40
41	GND	0	GND	41
42	GND	0	GND	42
43	IN5_VD	3.3	IN5_VD	43
44	GND	0	GND	44
45	GND	0	GND	45
46	HYOUJI_X	0	HYOUJI_X	46
47	VYOBI4	0	VYOBI4	47
48	VYOBI5	0	VYOBI5	48
49	VYOBI6	0	VYOBI6	49
50	WE_ROM_B	0	WE_ROM_B	50

RGB ASSY

VIDEO SLOT I/F ASSY

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	R12 (CN7405)	Voltage	VS4 (CN8953)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	G_SLOT	0	G_SLOT	3
4	GND	0	GND	4
5	B_SLOT	0	B_SLOT	5
6	GND	0	GND	6
7	R_SLOT	0	R_SLOT	7
8	GND	0	GND	8
9	HD_SLOT	0	HD_SLOT	9
10	GND	0	GND	10
11	VD_SLOT	0	VD_SLOT	11
12	GND	0	GND	12
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13
14	GND	0	GND	14
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15
16	GND	0	GND	16
17	SLOT_ST1	0	SLOT_ST1	17
18	S_DIN_SEL	0	S_DIN_SEL	18
19	FNC_1	0	FNC_1	19
20	FNC_0	5	FNC_0	20
21	NC	0	NC	21
22	NC	0	NC	22
23	VD_DET	0	VD_DET	23
24	GND	0	GND	24
25	HD_DET	0	HD_DET	25
26	GND	0	GND	26
27	VD_IC1	3.2	VD_IC1	27
28	GND	0	GND	28
29	HD_IC1	3	HD_IC1	29
30	GND	0	GND	30
31	GND	0	GND	31
32	RB0_IC1	0/3.3	RB0_IC1	32
33	RB1_IC1	0/3.3	RB1_IC1	33
34	RB2_IC1	0/3.3	RB2_IC1	34
35	RB3_IC1	0/3.3	RB3_IC1	35
36	RB4_IC1	0/3.3	RB4_IC1	36
37	RB5_IC1	0/3.3	RB5_IC1	37

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RGB ASSY VIDEO SLOT I/F ASSY

nab <i>r</i>	1001		VIDEO SLOT I/F	7001
	R12 (CN7405)	Voltage	VS4 (CN8953)	
No.	Name	(V)	Name	No.
38	RB6_IC1	0/3.3	RB6_IC1	38
39	RB7_IC1	0/3.3	RB7_IC1	39
40	GND	0	GND	40
41	GND	0	GND	41
42	GB0_IC1	0/3.3	GB0_IC1	42
43	GB1_IC1	0/3.3	GB1_IC1	43
44	GB2_IC1	0/3.3	GB2_IC1	44
45	GB3_IC1	0/3.3	GB3_IC1	45
46	GB4_IC1	0/3.3	GB4_IC1	46
47	GB5_IC1	0/3.3	GB5_IC1	47
48	GB6_IC1	0/3.3	GB6_IC1	48
49	GB7_IC1	0/3.3	GB7_IC1	49
50	GND	0	GND	50
51	GND	0	GND	51
52	BB0_IC1	0/3.3	BB0_IC1	52
53	BB1_IC1	0/3.3	BB1_IC1	53
54	BB2_IC1	0/3.3	BB2_IC1	54
55	BB3_IC1	0/3.3	BB3_IC1	55
56	BB4_IC1	0/3.3	BB4_IC1	56
57	BB5_IC1	0/3.3	BB5_IC1	57
58	BB6_IC1	0/3.3	BB6_IC1	58
59	BB7_IC1	0/3.3	BB7_IC1	59
60	GND	0	GND	60
61	GND	0	GND	61
62	GND	0	GND	62
63	SCL_VS	3.1	SCL_VS	63
64	GND	0	GND	64
65	SDA_VS	3.1	SDA_VS	65
66	GND	0	GND	66
67	GND	0	GND	67
68	GND	0	GND	68
69	NC	0	NC	69
70	GND	0	GND	70
71	NC	0	NC	71
72	GND	0	GND	72
73	NC	0	NC	73
74	GND	0	GND	74
75	NC	0	NC	75
76	NC	0	NC	76
77	IN4_DET	0	IN4_DET	77
78	IN3_DET	0	IN3_DET	78
79	SLOT_ST2	3	SLOT_ST2	79
80	SR_VS	5.1	SR_VS	80
81	NC	0	NC	81
82	3G4G	3.3	3G4G	82
83	GND	0	GND	83
84	GND	0	GND	84
85	IN5_DET	0	IN5_DET	85
86	GND	0	GND	86
87	DE_IC1	2.5	DE_IC1	87
88	GND	0	GND	88
89	CK_IC1	1.5	CK_IC1	89
90	GND	0	GND	90
91	GND	0	GND	91
92	BA7_IC1	0/3.3	BA7_IC1	92
93	BA6_IC1	0/3.3	BA6_IC1	93
94	BA5_IC1	0/3.3	BA5_IC1	94
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RGB ASSY VIDEO SLOT I/F ASSY

RGB /			VIDEO SLOT I/F	700
	R12 (CN7405)	Voltage	VS4 (CN8953)	
No.	Name	(V)	Name	No
95	BA4_IC1	0/3.3	BA4_IC1	95
96	BA3_IC1	0/3.3	BA3_IC1	96
97	BA2_IC1	0/3.3	BA2_IC1	97
98	BA1_IC1	0/3.3	BA1_IC1	98
99	BA0_IC1	0/3.3	BA0_IC1	99
100	GND	0	GND	100
101	GND	0	GND	101
102	GA7_IC1	0/3.3	GA7_IC1	102
103	GA6_IC1	0/3.3	GA6_IC1	103
104	GA5_IC1	0/3.3	GA5_IC1	104
105	GA4_IC1	0/3.3	GA4_IC1	105
106	GA3_IC1	0/3.3	GA3_IC1	106
107	GA2_IC1	0/3.3	GA2_IC1	107
108	GA1_IC1	0/3.3	GA1_IC1	108
109	GA0_IC1	0/3.3	GA0_IC1	109
110	GND	0	GND	110
111	GND	0	GND	11
112	RA7_IC1	0/3.3	RA7_IC1	112
113	RA6_IC1	0/3.3	RA6_IC1	110
114	RA5_IC1	0/3.3	RA5_IC1	114
115	RA4_IC1	0/3.3	RA4_IC1	118
116	RA3_IC1	0/3.3	RA3_IC1	116
117	RA2_IC1	0/3.3	RA2_IC1	117
118	RA1_IC1	0/3.3	RA1_IC1	118
119	RA0_IC1	0/3.3	RA0_IC1	119
120	GND	0	GND	120
121	GND	0	GND	12
122	GND	0	GND	122

AV I/O ASSY AUDIO AMP ASSY

	AV1 (CN7601)	Voltage	AP2 (CN5001)	
No.	Name	(V)	Name	No.
1	A_NG	3.2	A_NG	15
2	TEMP3	0-3.3	TEMP3	14
3	A_MUTE	0	A_MUTE	13
4	ST_BY	2.5	ST_BY	12
5	GND	0	GND	11
6	V+6V	6.8	V+6V	10
7	V+3V	3.3	V+3V	9
8	V+12A	12	V+12A	8
9	GND	0	GND	7
10	-R_OUT	6	-R_OUT	6
11	+R_OUT	6	+R_OUT	5
12	GND	0	GND	4
13	-L_OUT	6	-L_OUT	3
14	+L_OUT	6	+L_OUT	2
15	GND	0	GND	1

AV I/O ASSY KEY CONTROL ASSY

	AV2 (CN8702)	Voltage (V)	KY1 (CN9001)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	KEY	3.3	KEY	2
3	V+3VSTB	3.3	V+3VSTB	3

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AV I/O ASSY

LED OPT ASSY

AV3 (CN8703)		Voltage	LO1 (CN9651)	
No.	Name	(V)	Name	No.
1	V+3STB	3.3	V+3STB	1
2	LED_ G	0	LED_ G	2
3	LED_R	3.3	LED_R	3
4	GND	0	GND	4
5	AC_DET	3	AC_DET	5

AV I/O ASSY

COMM SLOT I/F ASSY

	AV5 (CN8704)	Voltage	CS1 (CN8905)	
No.	Name	(V)	Name	No.
1	STL_LINK	3.3	STL_LINK	1
2	CB_MUTE	3.3	CB_MUTE	2
3	KEY	3.3	KEY	3
4	RXD	3.3	RXD	4
5	TXD	3.3	TXD	5
6	GND	0	GND	6

AUDIO AMP ASSY

POWER SUPPLY ASSY

	AP1 (CN5002)	Voltage	P6	
No.	Name	(V)	Name	No.
1	V+16R5	16.7	V+16R5	1
2	V+16R5	16.7	V+16R5	2
3	GNDP	0	GNDP	3
4	GNDP	0	GNDP	4
5	GNDP	0	GNDP	5
6	GNDP	0	GNDP	6

AUDIO AMP ASSY

SP TERMINAL R ASSY

	310 711111 71001		Of TETRIVITY (ETTY)	
	AP3 (CN5003)	Voltage	SP2 (CN9801)	
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	R+	5.3	R+	2
3	R-	5.2	R-	3
			SP TERMINAL L ASS	Y
			SP1 (CN9702)	
4	STBGND	0	STBGND	1
5	TEMP3	0-3.3	TEMP3	2
6	V+3VDD	3.3	V+3VDD	3
7	GND	0	GND	4
8	L+	5.3	L+	5
9	L-	5.2	L-	6

KEY CONTROL ASSY

SIDE KEY ASSY

	KY2 (CN9002)	Voltage	KY3 (CN4801)	
No.	Name	(V)	Name	No.
1	D7	0/3.3	D7	1
2	D6	0/3.3	D6	2
3	D5	0/3.3	D5	3
4	G0	0/3.3	G0	4
5	G1	0/3.3	G1	5
6	G2	0/3.3	G2	6
7	G3	0/3.3	G3	7
8	GND	0	GND	8
8	GND	0	GND	

COMM SLOT I/F ASSY

IR ASSY

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CS4 (CN8901)		Voltage	RE1 (CN4901)	
No.	Name	ΛΛ,		No.
1	V+3STB	3.3	V+3STB	1
2	GND	0	GND	2
3	SR	0	SR	3
4	GND	0	GND	4

COMM SLOT I/F ASSY

COMM SLOT ASSY

	VIIVI SLUT I/F ASST	1	COMINI SLOT ASST			
	CS5 (CN8904)	Voltage	CN9454			
No.	Name	(V)	Name	No.		
1	NC	0	NC	1		
2	IRSW	0	IRSW	2		
3	IR_COMM_OUT	5.1	IR_COMM_OUT	3		
4	IR_COMM_IN	5.1	IR_COMM_IN	4		
5	GND	0	GND	5		
6	GND	0	GND	6		
7	GND	0	GND	7		
8	CYOBI3	0	CYOBI3	8		
9	CYOBI2	0	CYOBI2	9		
10	CSL_ST2	3.3	CSL_ST2	10		
11	CSL_ST1	3.3	CSL_ST1	11		
12				12		
13				13		
14	GND	0	GND	14		
15	GND	0	GND	15		
16	FIRST_RXD	3.3	FIRST_RXD	16		
17	GET_UART	3.3	GET_UART	17		
18	INT_EXT	3.3	INT_EXT	18		
19	RXD_CARD	0	RXD_CARD	19		
20	TXD_CARD	0	TXD_CARD	20		
21	GPC5	0	GPC5	21		
22	GPC4	0	GPC4	22		
23	GPC3	0	GPC3	23		
24	GPC2	0	GPC2	24		
25	GPC1	0	GPC1	25		
101	NC	0	NC	101		
102	GND	0	GND	102		
103	GND	0	GND	103		
104	GND	0	GND	104		
105	TXD_PDP	3.3	TXD_PDP	105		
106	RXD_PDP	3.3	RXD_PDP	106		
107	KEY_COMM_IN	3.3	KEY_COMM_IN	107		
108	CB_MUTE	3.3	CB_MUTE	108		
109	STL_LINK	3.3	STL_LINK	109		
110	GND	0	GND	110		
111	GND	0	GND	111		
114	V+6.5V	6.8	V+6.5V	114		
115	V+6.5V	6.8	V+6.5V	115		
116	GND	0.0	GND	116		
117	GND	0	GND	117		
118	V+3VSTB	3.3	V+3VSTB	118		
119	V+3VSTB V+3VSTB	3.3	V+3VSTB	119		
120	NC	0	NC	120		
121	NC NC	0	NC NC	121		
122	NC NC	0	NC NC	122		
123	NC NC	0	NC NC	123		
124	NC NC	0	NC NC	124		
125	NC	0	NC	125		

COMM SLOT I/F	

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В

VIDEO SLOT I/F ASSY

	CS3 (CN8903)	Voltage	VS2 (CN8952)	
No.	No. Name		Name	No.
1	GND	0	GND	1
2	FIRST_RXD	3.3	FIRST_RXD	2
3	GET_UART	3.3	GET_UART	3
4	INT_EXT	3.3	INT_EXT	4
5	RXD_GU	0	RXD_GU	5
6	TXD_GU	0	TXD_GU	6
7	GPC5	0	GPC5	7
8	GPC4	0	GPC4	8
9	GPC3	0	GPC3	9
10	GPC2	0	GPC2	10
11	GPC1	0	GPC1	11

	VS5 (CN8954)	Voltage	CN7902		
No.	Name	(V)	Name	No.	
1	GND	0	GND	1	
2	GND	0	GND	2	
3	G_SLOT	0	G_SLOT	3	
4	GND	0	GND	4	
5	B_SLOT 0 B_SLOT		B_SLOT	5	
6	GND 0 GND		6		
7	R_SLOT	0	R_SLOT	7	
8	GND	0	GND	8	
9	HD_SLOT	0	HD_SLOT	9	
10	GND	0	GND	10	
11	VD_SLOT	0	VD_SLOT	11	
12	GND	0	GND	12	
13	AUDIO_L_SLOT	6	AUDIO_L_SLOT	13	
14	GND	0	GND	14	
15	AUDIO_R_SLOT	6	AUDIO_R_SLOT	15	
16	GND	0	GND	16	
17	SLOT_ST1	0	SLOT_ST1	17	
18	S_DIN_SEL	0	S_DIN_SEL	18	
19	FNC_1	0	FNC_1	19	
20	FNC_0	5	FNC_0	20	
21	V+3.3V	3.2	V+3.3V	21	
22	V+3.3V	3.2	V+3.3V	22	
23	VD_DET	0	VD_DET	23	
24	GND	0	GND	24	
25	HD_DET	0	HD_DET	25	
26	GND	0	GND	26	
27	VD	3.2	VD	27	
28	GND	0	GND	28	
29	HD	3	HD	29	
30	GND	0	GND	30	
31	GND	0	GND	31	
32	RB0_IC1	0/3.3	RB0_IC1	32	
33	RB1_IC1	0/3.3	RB1_IC1	33	
34	RB2_IC1	0/3.3	RB2_IC1	34	
35	RB3_IC1	0/3.3	RB3_IC1	35	
36	RB4_IC1	0/3.3	RB4_IC1	36	
37	RB5_IC1	0/3.3	RB5_IC1	37	
38	RB6_IC1	0/3.3	RB6_IC1	38	
39	RB7_IC1	0/3.3	RB7_IC1	39	
40	GND	0/0.5	GND	40	
41	GND	0	GND	41	
42	GB0_IC1	0/3.3	GB0_IC1	42	

VIDEO SLOT I/F ASSY

VIDEO SLOT 1 and 2 ASSY

	VS5 (CN8954)	Voltage	CN7902	
No.	Name	Voltage (V)	Name	N
43	GB1_IC1	0/3.3	GB1_IC1	4
44	GB2 IC1	0/3.3	GB2_IC1	4
45	GB3_IC1	0/3.3	GB3_IC1	4
46	GB4_IC1	0/3.3	GB4_IC1	4
47	GB5_IC1	0/3.3	GB5_IC1	4
48	GB6_IC1	0/3.3	GB6_IC1	4
49	GB7_IC1	0/3.3	GB7_IC1	4
50	GB7_101	0/0.0	GB7_101	5
51				5
52	GND	0	GND	5
53	GND	0	GND	5
54	BB0_IC1	0/3.3	BB0_IC1	5
55		0/3.3		_
	BB1_IC1		BB1_IC1	5
56	BB2_IC1	0/3.3	BB2_IC1	5
57	BB3_IC1	0/3.3	BB3_IC1	5
58	BB4_IC1	0/3.3	BB4_IC1	5
59	BB5_IC1	0/3.3	BB5_IC1	5
60	BB6_IC1	0/3.3	BB6_IC1	6
61	BB7_IC1	0/3.3	BB7_IC1	6
62	GND	0	GND	6
63				6
64		-		6
65	GND	0	GND	6
66	GND	0	GND	- 6
67	KEY	3.3	KEY	- 6
68	NC	0	NC	- 6
69	TXD_CARD	0	TXD_CARD	- 6
70	RXD_CARD	0	RXD_CARD	17
71	INT_EXT	3.3	INT_EXT	7
72	NC	0	NC	7
73	EMGREQ1_V	0	EMGREQ1_V	7
74	EMGREQ2_V	0	EMGREQ2_V	7
75	IC1V_OE	3.3	IC1V_OE	7
76	RESETX1	3.3	RESETX1	7
77	NC	0	NC	7
78	SD_SEL	3.3	SD_SEL	7
79	FNC2	0	FNC2	7
80	FNC3	0	FNC3	8
81	SOUND1	3.3	SOUND1	8
82	GND	0	GND	8
83	DSUBR	3.8	DSUBR	8
84	GND	0	GND	8
85	DSUBG	0	DSUBG	8
86	GND	0	GND	8
87	DSUBB	3.8	DSUBB	8
88	GND	0	GND	8
89	IN5_HD	0	IN5_HD	8
90	SOUSA_X	3.3	SOUSA_X	9
91	GPC1	0	GPC1	9
92	GPC2	0	GPC2	9
93	GPC5	0	GPC5	9
94	VYOBI1	0	VYOBI1	9
95	VYOBI2	0	VYOBI2	9
96	DSUBSW_DET	0	0 DSUBSW_DET	
101	GND	0	GND	10
102	GND	0	GND	10
103	GND	0	GND	10

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VIDEO SLOT I/F ASSY VIDEO SLOT 1 and 2 ASSY VIDEO SLOT I/F ASSY VIDEO SLOT 1 and 2 ASSY

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105 GND 0 GND 105 106 SDA_VS 3.1 SDA_VS 106 107 GND 0 GND 107 108 GND 0 GND 107 109 GND 0 GND 109 110 V+12V 12.9 V+12V 110 111 GND 0 GND 111 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.8STB 3.3 V+3.8STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 INA_DET 0 INA_DET 117 118 INA_DET 0 INA_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 121 123 GND 0 GND 123 124 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 128 127 GND 0 GND 124 128 DE 2.5 DE 128 129 GND 0 GND 127 130 CLK 1.5 CLK 130 131 GND 0 GND 124 132 BAT_IC1 0/3.3 BAT_IC1 138 134 BAS_IC1 0/3.3 BAS_IC1 138 135 GAA_IC1 10/3.3 GAA_IC1 148 149 GAA_IC1 0/3.3 GAA_IC1 148 149 GAA_IC1 0/3.3 GAA_IC1 144 140 GND 0 GND 141 151 GAB_IC1 0/3.3 GAA_IC1 144 152 GAA_IC1 0/3.3 GAA_IC1 144 153 GAA_IC1 0/3.3 GAA_IC1 144 154 GAA_IC1 0/3.3 GAA_IC1 144 155 GAA_IC1 0/3.3 GAA_IC1 144 156 GAA_IC1 0/3.3 GAA_IC1 144 157 GAA_IC1 0/3.3 GAA_IC1 144 158 GAA_IC1 0/3.3 GAA_IC1 144 159 GAA_IC1 0/3.3 GAA_IC1 149 150 GAA_IC1 0/3.3 GAA_IC1 149 151 GAD_IC1 0/3.3 GAA_IC1 149 152 GAD_IC1 0/3.3 GAA_IC1 149 153 GAA_IC1 0/3.3 GAA_IC1 149 154 GAA_IC1 0/3.3 GAA_IC1 149 155 GAA_IC1 0/3.3 GAA_IC1 149 156 GAA_IC1 0/3.3 GAA_IC1 149 157 GAA_IC1 0/3.3 GAA_IC1 149 158 GAA_IC1 0/3.3 GAA_IC1 149 159 GAA_IC1 0/3.3 GAA_IC1 149 150 GAA_IC1 0/3.3 GAA_IC1 149 151 GAA_IC1 0/3.3 GAA_IC1 149 152 GAA_IC1 0/3.3 GAA_IC1 149 154 GAA_IC1 0/3.3 GAA_IC1 149 155 GAA_IC1 0/3.3 GAA_IC1 149 156 GAA_IC1 0/3.3 GAA_IC1 149 157 GAA_IC1 0/3.3 GAA_IC1 149 158 GAA_IC1 0/3.3 GAA_IC1 149 159 GAA_IC1 0/3.3 GAA_IC1 149 150 GAA_IC1 0/3.3 GAA_IC1 149 151 GAA_IC1 0/3.3 GAA_IC1 145 152 GND 0 GND 152 153 GND 0 GND 152 154 GAA_IC1 0/3.3 GAA_IC1 145 155 GAA_IC1 0/3.3 GAA_IC1 145 156 GAA_IC1 0/3.3 GAA_IC1 145 157 GAA_IC1 0/3.3 GAA_IC1 145 158 GAA_IC1 0/3.3 GAA_IC1 145 159 GAA_IC1 0/3.3 GAA_IC1 145 150 GAA_IC1 0/3.3 GAA_IC1 145 151 GAA_IC1 0/3.3 GAA_IC1 145 155 GAA_IC1 0/3.3 GAA_IC1 145 155 GAA_IC1 0/3.3 GAA_IC1 145 155 GAA_IC1 0/3.3 GAA_IC1 145 156 GAA_IC1 0/3.3 GAA_IC1 15		EU SLUT I/F ASSY	VIDEO SLOT Tand 2 A		
Section Sect		VS5 (CN8954)		CN7902	
105 GND 0 GND 105 106 SDA_VS 3.1 SDA_VS 106 107 GND 0 GND 107 108 GND 0 GND 107 108 GND 0 GND 109 110 V+12V 12.9 V+12V 110 111 GND 0 GND 111 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.STB 3.3 V+3.STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 INA_DET 0 INA_DET 117 118 INA_DET 0 INA_DET 117 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 121 123 GND 0 GND 123 124 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 128 127 GND 0 GND 124 128 DE 2.5 DE 128 129 GND 0 GND 127 130 CLK 1.5 CLK 130 131 GND 0 GND 123 132 BAP_IC1 0/3.3 BAP_IC1 138 133 BAB_IC1 0/3.3 BAP_IC1 138 134 GAB_IC1 0/3.3 GAP_IC1 148 135 GAB_IC1 0/3.3 GAP_IC1 148 149 GAP_IC1 0/3.3 BAP_IC1 138 140 GAP_IC1 0/3.3 BAP_IC1 138 141 GND 0 GND 141 152 GAP_IC1 0/3.3 BAP_IC1 138 153 BAB_IC1 0/3.3 BAP_IC1 138 154 GAP_IC1 0/3.3 GAP_IC1 138 155 GAP_IC1 0/3.3 GAP_IC1 144 156 GAP_IC1 0/3.3 GAP_IC1 144 157 GAP_IC1 0/3.3 GAP_IC1 144 158 GAP_IC1 0/3.3 GAP_IC1 144 159 GAP_IC1 0/3.3 GAP_IC1 144 150 GAP_IC1 0/3.3 GAP_IC1 144 151 GAP 0 GND 141 152 GAP_IC1 0/3.3 GAP_IC1 144 154 GAP_IC1 0/3.3 GAP_IC1 144 155 GAP_IC1 0/3.3 GAP_IC1 144 156 GAP_IC1 0/3.3 GAP_IC1 144 157 GAP_IC1 0/3.3 GAP_IC1 144 158 GAP_IC1 0/3.3 GAP_IC1 144 159 GAP_IC1 0/3.3 GAP_IC1 144 140 GAP_IC1 0/3.3 GAP_IC1 144 141 GND 0 GND 141 142 GAP_IC1 0/3.3 GAP_IC1 144 143 GAP_IC1 0/3.3 GAP_IC1 144 144 GAP_IC1 0/3.3 GAP_IC1 144 145 GAP_IC1 0/3.3 GAP_IC1 144 146 GAP_IC1 0/3.3 GAP_IC1 144 147 GAP_IC1 0/3.3 GAP_IC1 144 148 GAP_IC1 0/3.3 GAP_IC1 144 149 GAP_IC1 0/3.3 GAP_IC1 144 140 GAP_IC1 0/3.3 GAP_IC1 144 141 GND 0 GND 152 153 GND 0 GND 152 154 GAP_IC1 0/3.3 GAP_IC1 155 155 GAP_IC1 0/3.3 GAP_IC1 155 156 GAP_IC1 0/3.3 GAP_IC1 155 157 GAP_IC1 0/3.3 GAP_IC1 155 158 GAP_IC1 0/3.3 GAP_IC1 155 159 GAP_IC1 0/3.3 GAP_IC1 155 150 GAP_IC1 0/3.3 GAP_IC1 155 151 152 GND 0 GND 152 153 GND 0 GND 152 154 GAP_IC1 0/3.3 GAP_IC1 155 155 GAP_IC1 0/3.3 GAP_IC1 155 156 GAP_IC1 0/3.3 GAP_IC1 155 157 GAP_IC1 0/3.3 GAP_IC1 155 158 GAP_IC1 0/3.3 GAP_IC1 155 159 GAP_IC1 0/3	No.	Name	(V)	Name	No.
106	104	SCL_VS	3.1	SCL_VS	104
107 GND 0 GND 107 108 GND 0 GND 108 109 GND 0 GND 109 110 V+12V 12.9 V+12V 110 111 GND 0 GND 111 112 NC 0 NC 112 113 GND 0 GND 113 114 V+3.3STB 3.3 V+3.3STB 114 115 V+13.5 13.6 V+13.5 116 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 0 IN4_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 121 123 GND 0 GND 123 124 GND 0 GND 123 125 GND 0 GND 123 126 IN5_DET 0 GND 124 127 GND 0 GND 124 128 DE 2.5 DE 128 129 GND 0 GND 127 128 DE 2.5 DE 128 139 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA4_IC1 133 135 BA4_IC1 0/3.3 BA2_IC1 138 146 GA3_IC1 0/3.3 BA3_IC1 144 147 GND 0 GND 141 148 GA3_IC1 0/3.3 BA2_IC1 144 149 GAD_IC1 0/3.3 BA2_IC1 144 140 GND 0 GND 141 141 GND 0 GND 141 142 GA7_IC1 0/3.3 BA2_IC1 144 144 GAS_IC1 0/3.3 BA2_IC1 144 145 GA3_IC1 0/3.3 BA3_IC1 146 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA3_IC1 146 148 GA1_IC1 0/3.3 GA3_IC1 146 149 GA3_IC1 0/3.3 GA3_IC1 146 140 GND 0 GND 141 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA3_IC1 146 143 GA3_IC1 0/3.3 GA3_IC1 149 144 GA3_IC1 0/3.3 GA3_IC1 146 145 GA4_IC1 0/3.3 GA3_IC1 146 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA3_IC1 146 148 GA1_IC1 0/3.3 GA3_IC1 146 149 GA3_IC1 0/3.3 GA3_IC1 146 140 GND 0 GND 141 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA3_IC1 146 143 GA4_IC1 0/3.3 GA3_IC1 146 144 GA5_IC1 0/3.3 GA3_IC1 146 145 GA4_IC1 0/3.3 GA3_IC1 146 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA3_IC1 146 148 GA1_IC1 0/3.3 GA3_IC1 146 149 GA1_IC1 0/3.3 GA3_IC1 146 140 GND 0 GND 141 141 GND 0 GND 153 154 RAZ_IC1 0/3.3 GA3_IC1 156 156 RAS_IC1 0/3.3 RAA_IC1 155 157 RAA_IC1 0/3.3 RAA_IC1 155 158 RAA_IC1 0/3.3 RAA_IC1 155 159 RAA_IC1 0/3.3 RAA_IC1 155 150 RAA_IC1 0/3.3 RAA_IC1 155 151 RAA_IC1 0/3.3 RAA_IC1 155 152 RAA_IC1 0/3.3 RAA_IC1 155 153 GND 0 GND 153 154 RAA_IC1 0/3.3 RAA_IC1 155 155 RAA_IC1 0/3.3 RAA_IC1 155 156 RAA_IC1 0/3.3 RAA_IC1 155 157 RAA_IC1 0/3.3 RAA_IC1 155 158 RAA_IC1 0/3.3 RAA_IC1 155	105	GND	0	GND	105
108	106	SDA_VS	3.1	SDA_VS	106
108	107	GND	0	GND	107
109				GND	-
110					_
111					_
112					_
113 GND 0 GND 113 114 V+3.3STB 3.3 V+3.3STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 0 IN4_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 GND 127 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 127 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 133 132 BAA_IC1 0/3.3 BAA_IC1 136 133 BAA_IC1 0/3.3 BAA_IC1 138 134 GAA_IC1 0/3.3 BAA_IC1 138 135 GAA_IC1 0/3.3 GAA_IC1 144 140 GND 0 GND 141 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GAA_IC1 144 144 GA5_IC1 0/3.3 GAA_IC1 144 145 GAA_IC1 0/3.3 GAA_IC1 144 146 GA3_IC1 0/3.3 GAA_IC1 144 147 GA2_IC1 0/3.3 GAA_IC1 144 148 GA1_IC1 0/3.3 GAA_IC1 144 149 GAO_IC1 0/3.3 GAA_IC1 144 140 GND 0 GND 141 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GAA_IC1 144 144 GA5_IC1 0/3.3 GAA_IC1 144 145 GAA_IC1 0/3.3 GAA_IC1 144 146 GA3_IC1 0/3.3 GAA_IC1 144 147 GA2_IC1 0/3.3 GAA_IC1 144 148 GA1_IC1 0/3.3 GAA_IC1 144 149 GAO_IC1 0/3.3 GAA_IC1 148 150 GAA_IC1 0/3.3 GAA_IC1 144 151 GND 0 GND 141 152 GND 0 GND 141 154 GAA_IC1 0/3.3 GAA_IC1 144 155 GAA_IC1 0/3.3 GAA_IC1 144 156 GAA_IC1 0/3.3 GAA_IC1 145 157 GAA_IC1 0/3.3 GAA_IC1 148 158 GAA_IC1 0/3.3 GAA_IC1 148 159 GAA_IC1 0/3.3 GAA_IC1 148 150 GAA_IC1 0/3.3 GAA_IC1 148 151 GAA_IC1 0/3.3 GAA_IC1 148 152 GND 0 GND 152 153 GND 0 GND 153 154 GAA_IC1 0/3.3 GAA_IC1 148 155 GAA_IC1 0/3.3 GAA_IC1 148 156 GAA_IC1 0/3.3 GAA_IC1 148 157 GAA_IC1 0/3.3 GAA_IC1 148 158 GAA_IC1 0/3.3 GAA_IC1 148 159 GAA_IC1 0/3.3 GAA_IC1 148 150 GAA_IC1 0/3.3 GAA_IC1 148 151 GAA_IC1 0/3.3 GAA_IC1 148 155 GAA_IC1 0/3.3 GAA_IC1 148 156 GAA_IC1 0/3.3 GAA_IC1 148 157 GAA_IC1 0/3.3 GAA_IC1 155 158 GAA_IC1 0/3.3 GAA_IC1 155 159 GAA_IC1 0/3.3 GAA_IC1 155 150 GAA_IC1 0/3.3 GAA_IC1 155 150 GAA_IC1 0/3.3 GAA_IC1 155 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 152 154 GND 0 GND 152 155 GND 0 GND 152 156 GND 0 GND 152 157 GND 0 GND 152 158 GND 0 GND 153 159 GND 0 GND 153 150 GN					_
114 V+3.3STB 3.3 V+3.5STB 114 115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 INA_DET 0 INA_DET 117 118 IN3_DET 0 INA_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 120 IR 5.1 IR 120 121 NC 0 NC 122 120 IR 5.1 IR 120 121 NC 0 NC 122 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 122 127 GND 0 GND 122 128 DE					
115 V+13.5 13.6 V+13.5 115 116 V+13.5 13.6 V+13.5 116 117 IN4_DET 0 IN4_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 121 NC 0 NC 122 122 NC 0 NC 122 122 NC 0 NC 122 122 NC 0 MC 122 123 GND 0 GND 123 124 GND 0 GND 122 125 3G4G 3.3 3G4G 125 127 GND 0 GND 127 128 DE					-
116 V+13.5 13.6 V+13.5 116 117 INA_DET 0 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 122 GND 0 GND 122 123 GND 0 GND 122 124 GND 0 GND 122 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE					-
117 INA_DET 0 INA_DET 117 118 IN3_DET 0 IN3_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BAF_LIC1 0/3.3 BAF_LIC1 132 133					
118 INS_DET 0 INS_DET 118 119 SLOT_ST2 3 SLOT_ST2 119 120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 123 125 3G4G 3.3 3G4G 125 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC	\vdash				_
119					_
120 IR 5.1 IR 120 121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA5_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 133 136					_
121 NC 0 NC 121 122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 INS_DET 0 INS_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA5_IC1 133 134 BA5_IC1 0/3.3 BA4_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 1					
122 NC 0 NC 122 123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 133 136 BA3_IC1 0/3.3 BA4_IC1 133 137 BA2_IC1 0/3.3 BA4_IC1 133					-
123 GND 0 GND 123 124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA5_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 136 137 BA2_IC1 0/3.3 BA4_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138	121	NC	0	NC	121
124 GND 0 GND 124 125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 1	122	NC	0	NC	122
125 3G4G 3.3 3G4G 125 126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA6_IC1 133 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1	123	GND	0	GND	123
126 IN5_DET 0 IN5_DET 126 127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA5_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 </td <td>124</td> <td>GND</td> <td>0</td> <td>GND</td> <td>124</td>	124	GND	0	GND	124
127 GND 0 GND 127 128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA6_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA5_IC1 135 136 BA3_IC1 0/3.3 BA4_IC1 135 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA1_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141	125	3G4G	3.3	3G4G	125
128 DE 2.5 DE 128 129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 1	126	IN5_DET	0	IN5_DET	126
129 GND 0 GND 129 130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA	127	GND	0	GND	127
130 CLK 1.5 CLK 130 131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA	128	DE	2.5	DE	128
131 GND 0 GND 131 132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 137 139 BA0_IC1 0/3.3 BA0_IC1 138 140 GND 0 GND 140 141 GND 0 GND 140 144 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA5_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3	129	GND	0	GND	129
132 BA7_IC1 0/3.3 BA7_IC1 132 133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA2_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA5_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1	130	CLK	1.5	CLK	130
133 BA6_IC1 0/3.3 BA6_IC1 133 134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA6_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1	131	GND	0	GND	131
134 BA5_IC1 0/3.3 BA5_IC1 134 135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA6_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1	132	BA7_IC1	0/3.3	BA7_IC1	132
135 BA4_IC1 0/3.3 BA4_IC1 135 136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA6_IC1 143 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA4_IC1 145 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA2_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150	133	BA6_IC1	0/3.3	BA6_IC1	133
136 BA3_IC1 0/3.3 BA3_IC1 136 137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA3_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 </td <td>134</td> <td>BA5_IC1</td> <td>0/3.3</td> <td>BA5_IC1</td> <td>134</td>	134	BA5_IC1	0/3.3	BA5_IC1	134
137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA2_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 <td>135</td> <td>BA4_IC1</td> <td>0/3.3</td> <td>BA4_IC1</td> <td>135</td>	135	BA4_IC1	0/3.3	BA4_IC1	135
137 BA2_IC1 0/3.3 BA2_IC1 137 138 BA1_IC1 0/3.3 BA1_IC1 138 139 BA0_IC1 0/3.3 BA0_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 143 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 <td>136</td> <td>BA3_IC1</td> <td>0/3.3</td> <td>BA3_IC1</td> <td>136</td>	136	BA3_IC1	0/3.3	BA3_IC1	136
139 BAO_IC1 0/3.3 BAO_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154	137	BA2_IC1	0/3.3	BA2_IC1	137
139 BAO_IC1 0/3.3 BAO_IC1 139 140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154	138	BA1_IC1	0/3.3	BA1_IC1	138
140 GND 0 GND 140 141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155	139	BA0 IC1	0/3.3		139
141 GND 0 GND 141 142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 <td>140</td> <td>GND</td> <td>0</td> <td>GND</td> <td>140</td>	140	GND	0	GND	140
142 GA7_IC1 0/3.3 GA7_IC1 142 143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 </td <td></td> <td>GND</td> <td></td> <td></td> <td>141</td>		GND			141
143 GA6_IC1 0/3.3 GA6_IC1 143 144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
144 GA5_IC1 0/3.3 GA5_IC1 144 145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159 </td <td></td> <td></td> <td></td> <td></td> <td>_</td>					_
145 GA4_IC1 0/3.3 GA4_IC1 145 146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					
146 GA3_IC1 0/3.3 GA3_IC1 146 147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					_
147 GA2_IC1 0/3.3 GA2_IC1 147 148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					_
148 GA1_IC1 0/3.3 GA1_IC1 148 149 GA0_IC1 0/3.3 GA0_IC1 149 150 150 150 150 151 151 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					_
149 GAO_IC1 0/3.3 GAO_IC1 149 150 150 150 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 155 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA4_IC1 158 159 RA2_IC1 0/3.3 RA3_IC1 158					-
150 150 151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					
151 151 152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159		GAU_ICT	0/3.3	GAU_ICT	
152 GND 0 GND 152 153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					
153 GND 0 GND 153 154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159		OND		ONE	-
154 RA7_IC1 0/3.3 RA7_IC1 154 155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					
155 RA6_IC1 0/3.3 RA6_IC1 155 156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					153
156 RA5_IC1 0/3.3 RA5_IC1 156 157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					-
157 RA4_IC1 0/3.3 RA4_IC1 157 158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159					155
158 RA3_IC1 0/3.3 RA3_IC1 158 159 RA2_IC1 0/3.3 RA2_IC1 159	156				156
159 RA2_IC1 0/3.3 RA2_IC1 159					_
	158		0/3.3		158
160 RA1_IC1 0/3.3 RA1_IC1 160	159	RA2_IC1	0/3.3	RA2_IC1	159
	160	RA1_IC1	0/3.3	RA1_IC1	160

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В

С

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	VS5 (CN8954)	Voltage	CN7902		
No.	Name	(V)	Name	No	
161	RA0_IC1	0/3.3	RA0_IC1	16	
162	GND	0	GND	16	
163				16	
164				16	
165	GND	0	GND	16	
166	GND	0	GND	16	
167	VSEPSCL	3.3	VSEPSCL	16	
168	VSEPSDA	3.3	VSEPSDA	16	
169	NC	0	NC	16	
170	GET_UART	3.3	GET_UART	17	
171	FIRST_RXD	3.3	FIRST_RXD	17	
172	NC	0	NC	17:	
173	EMGREQ1_S	0	EMGREQ1_S	17	
174	EMGREQ2_S	0	EMGREQ2_S	17	
175	IC1S_OE	0	IC1S_OE	17	
176	NC	0	NC	17	
177	NC	0	NC	17	
178	NC	0	NC	178	
179	SLOT_ST3	0.4	SLOT_ST3	17	
180	M_CHOICE	0	M_CHOICE	18	
181	SOUND2	0	SOUND2	18	
182	GND	0	GND	18	
183	GND	0	GND	18	
184	DSUBH	4.5	DSUBH	18	
185	GND	0	GND	18	
186	DSUBV	4.95	DSUBV	18	
187	GND	0	GND	18	
188	GND	0	GND	18	
189	IN5_VD	3.3	IN5_VD	18	
190	HYOUJI_X	0	HYOUJI_X	19	
191	GPC3	0	GPC3	19	
192	GPC4	0	GPC4	19	
193	NC	0	NC	19	
194	VYOBI4	0	VYOBI4	19	
195	VYOBI5	0	VYOBI5	19	
196	VYOBI6	0	VYOBI6	19	

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5. PCB PARTS LIST

Α

- NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

В	Mark No. Description LIST OF ASSEMBLIES fo	Part No. r PDP-504CMX	Mark No. Description LIST OF ASSEMBLIES fo	Part No. r PDP-434CMX
	NSP 150 ADDRESS ASSY NSP 250 ADDRESS ASSY	AWV2080 AWZ6870	NSP 143 ADDRESS ASSY NSP 243 ADDRESS ASSY	AWV2076 AWZ6862
	NSP 150 SCAN ASSY NSP 250 SCAN A ASSY NSP 250 SCAN B ASSY NSP 2X CONNECTOR A ASSY NSP 2X CONNECTOR B ASSY	AWV2083 AWZ6878 AWZ6879 AWZ6880 AWZ6881	NSP 143 SCAN ASSY NSP 243 SCAN A ASSY NSP 243 SCAN B ASSY NSP 2X CONNECTOR A ASSY NSP 2X CONNECTOR B ASSY	AWV2079 AWZ6873 AWZ6874 AWZ6875 AWZ6876
С	NSP 150 X DRIVE ASSY 250 X DRIVE ASSY 2PANEL SENSOR ASSY	AWV2175 AWZ6877 AWZ6872	NSP 143 X DRIVE ASSY 243 X DRIVE ASSY 2PANEL SENSOR ASSY	AWV2174 AWZ6865 AWZ6872
	150 Y DRIVE ASSY	AWV2082	143 Y DRIVE ASSY	AWV2078
	NSP 1RGB ASSY 2RGB ASSY 2SIDE KEY ASSY	AWV2185 AWZ6992 AWZ6852	NSP 1RGB ASSY 2RGB ASSY 2SIDE KEY ASSY	AWV2185 AWZ6992 AWZ6852
D	NSP 1CMX FUKUGO ASSY 2AV I/O ASSY 2AUDIO AMP ASSY 2COMM SLOT ASSY 2COMM SLOT I/F ASSY 2VIDEO SLOT I/F ASSY 2KEY CONTROL ASSY 2LED OPT ASSY 2IR RECEIVE ASSY 2SP TERMINAL L ASSY 2SP TERMINAL R ASSY 2COVER ASSY 2AV I/O I/F ASSY	AWV2170 AWZ6847 AWZ6848 AWZ6849 AWZ6980 AWZ6851 AWZ6981 AWZ6957 AWZ6989 AWZ6856 AWZ6857 AWZ6858 AWZ6859	NSP 1CMX FUKUGO ASSY 2AV I/O ASSY 2AUDIO AMP ASSY 2COMM SLOT ASSY 2COMM SLOT I/F ASSY 2VIDEO SLOT I/F ASSY 2KEY CONTROL ASSY 2LED OPT ASSY 2IR RECEIVE ASSY 2SP TERMINAL L ASSY 2SP TERMINAL R ASSY 2COVER ASSY 2AV I/O I/F ASSY	AWV2172 AWZ6894 AWZ6848 AWZ6849 AWZ6980 AWZ6851 AWZ6981 AWZ6957 AWZ6989 AWZ6856 AWZ6857 AWZ6858 AWZ6859
Ε	1POWER SUPPLY UNIT	AXY1083	⚠ 1POWER SUPPLY UNIT	AXY1083

ark No. Description	Part No.	Mark No. Description	Part No.	
50 ADDRESS ASSY		IC2004	TC74VHC541FT	
		<u>CAPACITORS</u>		
50 ADR LOGIC BLOCK]		C2001	CEHAT470M16	
EMICONDUCTORS	D=====	C2007	CKSRYB471K50	
IC1501	PEE001B	C2002-C2006, C2008	CKSSYB104K10	
OILS AND FILTERS		RESISTORS		
L1504	QTL1013	R2045	RAB4C0R0J	
		R2055	RAB4C100J	
<u>APACITORS</u>		R2025	RAB4C101J	
C1501, C1502 (47/6.3V)	ACH1357	R2018, R2019	RAB4C102J	
C1509, C1510	CKSSYB102K50	R2002, R2004, R2013-R2015	RAB4C470J	
C1503-C1507, C1511, C1512, C1552	CKSSYF104Z16			
C1555, C1558, C1561, C1564	CKSSYF104Z16	R2005, R2006, R2012, R2016, R2017		
ESISTORS		Other Resistors	RS1/16S###J	
R1510, R1519, R1522, R1526	RAB4C470J	OTHERS		
R1505-R1509, R1530, R1531	RS1/16SS1000F	CN2001 50P CONNECTER	AKM1201	
R1511-R1518, R1520, R1521	RS1/16SS470J		-	
R1523, R1524, R1527, R1528	RS1/16SS470J			
R1532-R1535	RS1/16SS470J	[50 Y SCAN BLOCK]		
		SEMICONDUCTORS		
Other Resistors	RS1/16S###J	IC2101, IC2103-IC2106, IC2108, IC210	9HCPL-M611	
		IC2111, IC2112	PST3638UR	
THERS		IC2102, IC2107	TC74ACT540FT	
CN1501 40P FFC CONNECTER	AKM1215	COULD AND EUTERO		
		COILS AND FILTERS L2101-L2103	LFEA100J	
0 ADR RESONANCE BLOCK]		L2101 L2100	LI LATOO	
EMICONDUCTORS		CAPACITORS		
IC1601-IC1603	TND307TD	C2104, C2111	ACH1413	
Q1604	2SA1163	C2101, C2107, C2113	CEHAT221M16	
Q1601	HAT1110R	C2118, C2119	CKSRYB102K50	
Q1602, Q1603	HAT3021R	C2116, C2117	CKSRYB471K50	
D1601	1SS302	C2102, C2103, C2105, C2106	CKSSYB104K10	
D1605, D1606, D1616, D1617	D1FL20U(S)	C2108-C2110, C2112, C2114	CKSSYB104K10	
D1610, D1619	RF051UA1D			
D1602, D1607, D1615	UDZS15(B)	RESISTORS		
011.0		R2138, R2141	RAB4C0R0J	
<u>OILS</u>	4=11	R2121, R2128	RAB4C472J	
L1601, L1602	ATH1164	Other Resistors	RS1/16S###J	
<u>APACITORS</u>		OTHERS		
C1605 (0.01/100V)	ACG1101	CN2101, CN2102 15P CONNECTER	AKM1200	
C1619, C1620 (330P/100V)	ACG1105			
C1609, C1615 (0.1/100V)	ACG1119			
C1618	ACH1357	[50 Y RESONANCE BLOCK]		
C1603 (47/16V)	ACH1391	SEMICONDUCTORS		
C1601 C1602 (56/90\/)	ACH1405	IC2211	BA10393F	
C1601, C1602 (56/80V) C1608, C1614	ACH1405 CKSRYB104K25	IC2201, IC2202	TND506MD	
C1604, C1606, C1612	CKSSYF104Z16	Q2213	2SC4081	
01004, 01000, 01012	510511 104Z10	Q2205, Q2206, Q2208, Q2209	2SK3555-01MR	
ESISTORS		Q2202, Q2203, Q2212	2SK3592-01S	
R1631	ACN1174	00001 00004 00007 00040	0070	
R1602, R1614, R1615, R1622, R1623	RS1/16SS220J	Q2201, Q2204, Q2207, Q2210 D2209, D2223	QSZ2 1SS302	
Other Resistors	RS1/16S###J	D2209, D2223 D2228, D2229, D2232, D2233	1SS355	
		D2202-D2205, D2207, D2208	D1FL40	
		D2212-D2214, D2216-D2219	D1FL40	
50 Y DRIVE ASSY		D2221, D2222	D1FL40	
0 Y LOGIC BLOCK]		D2221, D2222 D2201, D2206, D2211, D2220, D2225	RF2001T3D	
-		D2201, D2206, D2211, D2220, D2225 D2230	RF200113D RF2001T3D	
EMICONDUCTORS	TO744 OT5 405T	D2230 D2210, D2224	UDZS16(B)	
IC2002	TC74ACT540FT	DLL 10, DLLLT	352010(5)	
IC2001, IC2003 IC2005, IC2006	TC74ACT541FT TC74VHC08FT			
	LC./4VHCUXE1			

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	COILS	<u>- 4</u>		
	L2203, L2205	ATH1119	<u>CAPACITORS</u>	
	L2202	ATH1155	C2309-C2311, C2327, C2329, C2330	ACE1163
Α	L2204	ATH1156	C2314	ACE1165
	L2201	LFEA470J	C2346 (0.33/100V)	ACG1118
	CADACITODO		C2336 C2316, C2331	ACH1393 ACH1415
	CAPACITORS	AOE1175	02316, 02331	ACH1415
	C2212-C2214, C2226, C2227 C2211, C2224 (100P/630V)	ACE1175 ACG1104	C2303, C2342	ACH1416
	C2210, C2223 (0.22/250V)	ACG1104 ACG1112	C2343	CCSRCH102J50
	C2238, C2240 (150P/630V)	ACG1120	C2306	CEHAT221M25
	C2202, C2205, C2216, C2217	CCSRCH331J50	C2308, C2324, C2339, C2340, C2349	CEHAT470M16
			C2304, C2320, C2338, C2348	CEHAT470M25
	C2236	CEHAT2R2M50	00005 00000 00000 00005 00044	01/00/07/04/04/04
	C2203, C2218	CKSRYB105K6R3	C2305, C2322, C2323, C2325, C2341 C2347	CKSRYB104K16 CKSRYB105K6R3
В	C2230, C2232, C2233, C2235	CKSSYB104K10	C2301, C2307, C2344	CKSRYF104Z50
	C2201, C2208, C2215, C2219	CKSYB105K25	02001, 02007, 02044	OROTTI 10-1200
	RESISTORS		RESISTORS	
	R2240, R2241	RS1/10S1003F	R2332	ACN1166
	R2244-R2247	RS1/10S100J	R2364, R2365	ACN1174
	R2260, R2261	RS1/10S220J	R2367	RS1/10S0R0J
	R2205, R2211, R2213, R2220, R2221	RS1/10S2R2J	R2368	RS1/10S151J
	R2253, R2265	RS1/10S2R2J	R2309	RS1MMF132J
	Page 4	D04/40045555	R2310, R2311	RS1MMF472J
	R2234	RS1/16S1202F	R2312, R2313, R2322, R2325	RS3LMF100J
	R2235 R2233	RS1/16S3301F RS1/16S5601F	R2348, R2352, R2358, R2359	RS3LMF1R8J
_	R2242	RS1/16S8201F	Other Resistors	RS1/16S###J
С	R2215, R2230	RS1MMF101J		
	,		<u>OTHERS</u>	
	R2256, R2259	RS2MMF220J	KN2301-KN2305, KN2310, KN2312	ANK-142
	VR2201-VR2204	CCP1390	KN2314, KN2316 GROUND PLATE	ANK-142
	Other Resistors	RS1/16S###J	CN2301 CONNECTOR	B11B-EH
	OTHERS			
_	2201 DRIVE HEATSINK	ANH1628	[50 Y D-D CON BLOCK]	
	2201 SCREW	PMH30P080FTC	SEMICONDUCTORS	
	2201 0011211	1 William 6601 1 6	IC2406	BA10358F
			IC2401	MIP2E3DMC
	[50 Y SUS BLOCK]		IC2402-IC2405, IC2407, IC2409	PS2701A-1(L)
D	<u>SEMICONDUCTORS</u>		IC2410-IC2412	TA76431FR
	IC2302	HCPL-M611	Q2402, Q2407	2SA1037K
	IC2305	NJM2872F05	Q2410	2SA1163
	IC2303, IC2307 IC2310	STK795-513A TC7SH04FU	Q2417	2SA2005
	IC2310 IC2301, IC2304	TND301S	Q2405	2SC2713
	102001, 102004	11120010	Q2411-Q2413, Q2416, Q2419	2SC4081
	IC2311	TND307TD	Q2403	2SD1664
	Q2313	2SA1727	00404 00404	0004000
	Q2310	2SC4081	Q2401, Q2404 Q2415	2SD1898 HN1C01FU
	Q2303	2SD1898	D2430	1SS301
	Q2302	2SK3325-Z	D2410, D2419, D2436	1SS302
Е	Q2312	2SK3403	D2409, D2418	1SS355
	Q2309	HN1B04FU		
	D2322	1SS302	D2402	D1FK70
	D2312, D2325	1SS355	D2404-D2407	D1FL20U(S)
	D2324	D1FL40	D2414 D2403	D1FL40 EC8FS6
	D2319	EC10QS04	D2403 D2401	U1ZB330
-	D2319 D2320	RF051UA1D	DE-101	0120000
	D2323	UDZS16(B)	D2412, D2413, D2422	UDZS15(B)
	D2306	UDZS5R6(B)	D2437, D2438	UDZS33(B)
		` '	D2432	UDZS4R3(B)
	COILS AND FILTERS		D2423, D2431	UDZS5R6(B)
F	L2306, L2307	ATH1112	COULC AND EU TEDO	
	L2304, L2309	LFEA100J	COILS AND FILTERS	ATI/1150
	L2308	LFEA101J	T2402 T2403	ATK1156 ATK1157
	L2301, L2302, L2305	LFEA470J	T2403 T2401	ATK1157 ATK1158
	70	PDP-504CM		, (11(11))
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 PDP-504CM	3	4
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Mark No.	<u>Description</u>	Part No.	<u>Maı</u>	rk No.	Description	Part No.	
L2402		LFEA100J	C	C3031, C3032	, C3042, C3043, C3049	CCSRCH331J50	
L2401		LFEA101J		C3055, C3061		CCSRCH331J50	
					, C3020, C3021, C3028	CCSRCH390J50	
L2403		LFEA470J			, C3041, C3053, C3054		Α
			(C3064, C3065		CCSRCH390J50	
APACITOR	RS		(C3003, C3014	, C3025, C3036, C3047	CKSRYB105K6R3	
C2406		ACH1360					
C2401		ACH1361	(C3058		CKSRYB105K6R3	
C2427		CEHAT100M50					
C2403		CEHAT101M16	RE	SISTORS			_
C2405, C240	7. C2417	CEHAT101M25			, R3017, R3025, R3030	RAB4C221J	
02.00, 02.0	, 0=	02		R3036	, ,	RAB4C221J	
C2414		CEHAT221M16		Other Resistors	9	RS1/16S###J	
C2410		CEHAT221M25	`		5	1101/100//////	
C2411		CEHAT331M25	ОТ	HERS			
C2420		CEHAT470M2A	· · · · · · · · · · · · · · · · · · ·		CONNECTER NONPB	AKP1261	
C2409, C241	9	CKSRYB103K50					В
02400, 0241		ONOTTIBIOONOO			K3009, K3015, K3017	AKX9002	
C2402 C241	2, C2413, C2423, C2425	CKSRYB104K16	r	K3019, K3021	TEST PIN	AKX9002	
	6, C2441-C2444	CKSRYB104K16					
C2434-C243	*	CKSRYB105K6R3					
	1, C2428 08, C2416, C2418, C2426			=6 6 6 -	N.B. AGGIT		
C2404, C240	00, 02410, 02410, 02420	CKSRYF104Z50 CKSRYF104Z50		50 SCA	IN B ASSY		
02429		UNSHTF104250	SE	MICONDU	CTORS		
FOICTOR	•			C3201-IC3206		AN16021AA-K	
ESISTORS	2	101115		D3203-D3206	-	1SS355	
R2429		ACN1225	-	20200		100000	
R2435, R243		RS1/10S2202F	CA	PACITORS	2		
R2402-R240	4	RS1/10S3902F				1001000	
R2442		RS1/16S1201F			, C3212 (0.1/250V)	ACG1088	С
R2468		RS1/16S1202F			, C3233 (0.1/250V)	ACG1088	U
					, C3245 (0.1/250V)	ACG1088	
R2424		RS1/16S2001F			, C3266 (0.1/250V)	ACG1088	
R2420, R242	27, R2438	RS1/16S2201F			, C3214, C3215, C3226	CCSRCH101J50	
R2451		RS1/16S2202F	(C3228, C3237	, C3239, C3247, C3251	CCSRCH101J50	
R2467		RS1/16S3301F	_				
R2452, R245	53	RS1/16S3302F		C3258, C3259		CCSRCH101J50	
					, C3232, C3243, C3249		
R2457-R246	0	RS1/16S4701F		C3261		CCSRCH181J50	
R2506		RS3LMF151J			, C3216, C3221	CCSRCH331J50	
VR2401, VR2	2402	CCP1390	(C3230, C3231	, C3241, C3242, C3248	CCSRCH331J50	
Other Resisto	ors	RS1/16S###J					
			(C3254, C3260	, C3265	CCSRCH331J50	_
THERS			(C3208, C3209	, C3219, C3220, C3227	CCSRCH390J50	D
2401 HEATS	SINK	ANH1614	(C3229, C3238	, C3240, C3252, C3253	CCSRCH390J50	
2401 FILARS		BBZ30P080FTC	(C3263, C3264		CCSRCH390J50	
2401 30NE	VV	DDZJUFUOUFIC	(C3202, C3213	, C3224, C3235, C3246	CKSRYB105K6R3	
					•		
ECICTARA				C3257		CKSRYB105K6R3	
ESISTORS		D0.//.co				-	
Other Resisto	ors	RS1/16S###J	RE	SISTORS			_
					. R3216. R3224. R3229	RAB4C221.I	
				13235	,oo,o	RAB4C221J	
				Tozoo Other Resistor:	s	RS1/16S###J	
50 SC	AN A ASSY				-	. ιο ι, ιοοπππο	
EMICOND	UCTORS		ОТ	HERS			_
IC3001-IC30		AN16021AA-K	· · · · · · · · · · · · · · · · · · ·		OONNECTED MONDS	ALCD4.004	E
D3003-D300		1SS355			CONNECTER NONPB	AKP1261	
D0003-D300	O .	100000			K3214, K3216, K3218	AKX9002	
A DA CITO	ne .		k	K3221 TEST F	ZIN	AKX9002	
APACITOF		10015					
	02, C3012 (0.1/250V)	ACG1088					
	23, C3024 (0.1/250V)	ACG1088					
	35, C3045 (0.1/250V)	ACG1088		AV I/O	ASSY		_
	56, C3057 (0.1/250V)	ACG1088	ΓAV	/ I/O ASSY]			
C3005, C300	08, C3016, C3019, C3026	CCSRCH101J50	_	MICONDU			
					010110	041 0004 4	
	37, C3040, C3048, C3051			C7609	0	24LCS21A	
C3060, C306		CCSRCH101J50		C7610, IC761;		AN5870SB	
	8, C3033, C3044, C3050			C7602, IC760	b-IC/60/	BA4558F-HT	F
C3062		CCSRCH181J50		C7603		BD3869AF	
C3006, C301	1, C3017, C3022	CCSRCH331J50	<u></u>	C7604		NJM78L09UA	
							74
			PDP-504CM	X/1			71

PDP-504CMX/1 7

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	IC7601, IC7608	TC4052BFT	[IF UCOM BLOCK]	
	IC7612	TC74AC04FT	SEMICONDUCTORS	
	IC7611	TC74VHCT541AFT	IC8705	24LC01B
Α	Q7602, Q7605, Q7702	2SC4116	IC8702	HD64F3687FP
	Q7603	DTA124EUA	IC8703	PST9230N
			IC8701	TC74VHC08FT
	Q7604, Q7606-Q7608	DTC124EUA	IC8704	TC7W126FU
	Q7701	HN1C01FU		
	Q7601	RN1902	Q8701	2SJ461A
	Q7609	SM6K2	Q8708	DTA124EUA
-	D7601	1SS301	Q8702	DTC124EUA
	D=000 D=000 D=010 D=011	10000		
	D7606-D7608, D7610, D7611	1SS302	COILS AND FILTERS	
	D7613, D7614, D7616, D7617	1SS302	L8702	LCTAWR68J2520
	D7619, D7701	1SS355		
В	D7602, D7603, D7605, D7609	UDZS5.6B	CAPACITORS	
Ь	D7604	UDZS6.8B	C8706, C8707	CCSRCH120J50
	CARACITORS		C8708, C8714	CEHAT470M16
	CAPACITORS		C8704, C8718	CEHAT471M6R3
	C7633, C7634	CCSRCH101J50	C8717, C8720	CKSRYB103K50
	C7673, C7674	CCSRCH220J50	C8722-C8724	CKSRYB471K50
	C7631, C7632	CCSRCH221J50	33. == 33. = .	0.102
	C7611, C7612	CCSRCH471J50	C8709	CKSRYB472K50
	C7722	CEHAT100M50	C8701-C8703. C8705. C8711-C8713	CKSSYF104Z16
	_		C8715, C8716, C8719, C8721, C8725	CKSSYF104Z16
	C7654	CEHAT101M10	33. 13, 33. 13, 33. 13, 33. 21, 33. 23	0.100.1.10.2.10
	C7665	CEHAT101M16	RESISTORS	
	C7623, C7648	CEHAT220M50	R8719, R8720, R8723, R8724, R8726	RAB4C101J
С	C7705	CEHAT221M6R3	R8702, R8704, R8745	RAB4C103J
Ü	C7714, C7716, C7718	CEHAT331M10	R8736 Other Resistors	RS1/16S1302F RS1/16S###J
	C7619, C7635, C7637, C7695, C7697	CEHAT470M16	Other nesistors	NO 1/100###J
	C7721	CEHAT470M16	OTHERS	
	C7681, C7686, C7690	CEHAT471M16	OTHERS	A1(A4400E
	C7601, C7602, C7609, C7610, C7614		CN8701 PLUG 8-P	AKM1225
	C7616, C7638, C7639, C7643, C7653	CKSQYB225K10	K8701-K8703 TEST PIN	AKX9002
			X8702 CERAMIC RESONATOR	ASS1168
	C7627-C7630, C7640, C7650	CKSRYB102K50	X8701 CRYSTAL OSCILLATOR	ASS1172
	C7642, C7652, C7660, C7661, C7666	CKSRYB103K50	CN8704 PLUG(6P)	KM200NA6
	C7676, C7680, C7685, C7689	CKSRYB103K50		
	C7698-C7703, C7707, C7712, C7713	CKSRYB103K50		
D	C7715, C7717	CKSRYB103K50	IDVI DI OCKI	
_	07004 07000	01/070/74041/40	[DVI BLOCK]	
	C7621, C7622	CKSRYB104K16	SEMICONDUCTORS	
	C7603, C7620, C7662, C7663, C7667	CKSRYB105K10 CKSRYB105K10	IC7502	24LCS21A
	C7675, C7677, C7678, C7684		IC7511	BD6522F
	C7693, C7694, C7723	CKSRYB105K10	IC7503	SII1161CTU-K
	C7641, C7651	CKSRYB222K50	IC7504-IC7510	TC74LCX541FT
-	C7646, C7656	CKSRYB471K50	Q7503	DTA124EUA
	C7617, C7618, C7624-C7626, C7636	CKSSYF104Z16	07504 07500	DTO404EUA
	C7644, C7647, C7649, C7655, C7664	CKSSYF104Z16	Q7501, Q7502	DTC124EUA
	C7668, C7679, C7682, C7683, C7687	CKSSYF104Z16	D7501	1SS301
	C7691, C7692, C7696, C7704, C7706	CKSSYF104Z16	D7503, D7504	1SS302
_	07031, 07032, 07030, 07704, 07700	010011104210	D7502	UDZS6.8B
Е	C7708-C7711, C7720	CKSSYF104Z16	CAPACITORS	
	DEGIOTORS		C7524, C7526, C7530, C7532	CCSRCH101J50
	<u>RESISTORS</u>		C7534, C7535, C7537, C7538	CCSRCH101J50
	R7751-R7753	RS1/16S2200F	C7541, C7542, C7546, C7548-C7550	CCSRCH101J50
	R7712, R7725	RS1/16S2201F	C7504, C7507	CCSRCH221J50
_	R7699-R7701, R7741-R7743	RS1/16S27R0F	C7528, C7578, C7579	CEHAT101M10
	R7653, R7654, R7673, R7674	RS1/16S3301F	, ,	
	R7709-R7711	RS1/16S75R0F	C7522	CEHAT221M6R3
			C7502, C7510, C7516, C7518	CEHAT470M16
	Other Resistors	RS1/16S###J	C7503, C7506	CKSRYB222K50
			C7514, C7520, C7573-C7577	CKSRYB471K50
	<u>OTHERS</u>		C7501, C7509, C7513, C7515, C7517	CKSSYF104Z16
F	CN7602, CN7603 JACK	AKN1069	2 22 , 2 322, 2 2 2 3 3 3 3 3 3 3 3	
	JA7606, JA7607 15P D-SUB SOCKET		C7519, C7521, C7523, C7525, C7527	CKSSYF104Z16
	CN7601 PLUG(15P)	KM200NA15	C7529, C7531, C7533, C7536	CKSSYF104Z16
	5 55 255(151)		C7539, C7540, C7543-C7545, C7547	CKSSYF104Z16
				3
	72	PDP-504CM	X/1	
	1 =	2	3	4

Ark No. Description C7551-C7559		7	8	l
C7551-C7559	Part No.	Mark No. Description	Part No.	
07001 07000	CKSSYF104Z16	<u>CAPACITORS</u>		
		C1112, C1113, C1125-C1127	ACE1175	
<u>ESISTORS</u>		C1111, C1124 (100P/630V)	ACG1104	
R7560-R7565, R7568-R7573	RAB4CQ0R0J	C1109, C1119 (0.22/250V)	ACG1112	,
R7524-R7529, R7536, R7540	RAB4CQ100J	C1134, C1135 (150P/630V)	ACG1120	
R7552-R7555	RAB4CQ100J	C1101, C1105, C1116, C1117	CCSRCH331J50	
R7578-R7590	RAB4CQ470J	01100	CELLATODOMEO	
R7538	RS1/16S3900F	C1136 C1102, C1118	CEHAT2R2M50 CKSRYB105K6R3	
Other Resistors	RS1/16S###J	C1102, C1118 C1128, C1130-C1132	CKSSYB104K10	
Other resistors	1101/100###0	C1104, C1108, C1115, C1122	CKSYB105K25	
THERS		23., 2.1.00, 2.1.10, 2.1.12	5.10.51001120	
CN7501 JACK	AKN1069	RESISTORS		
CN7501 JACK CN7503 DVI SOCKET (24P)	AKP1216	R1116, R1122	RS1/10S1003F	
,		R1133, R1143-R1145	RS1/10S100J	
		R1155, R1156	RS1/10S220J	
		R1103, R1106, R1118, R1119, R1123		
50 X DRIVE ASSY		R1126, R1153	RS1/10S2R2J	
THERS				
1001 DRIVE SIRICON SHEET	AEH1062	R1136	RS1/16S1202F	
1001 PLATE X	ANG2664	R1139	RS1/16S3301F	
1001 DRIVE HEATSINK A	ANH1613	R1130	RS1/16S5601F	
1001 SCREW	BMZ30P080FTC	R1134 R1113, R1128	RS1/16S8201F RS1MMF101J	
1002 SCREW	PMB30P060FNI	H1113, H1126	HO HIVIIVIE IU IJ	
		R1147, R1148	RS2MMF220J	
0 X LOGIC BLOCK]		VR1101-VR1104	CCP1390	
EMICONDUCTORS		Other Resistors	RS1/16S###J	
IC1002	TC74ACT540FT		,	
IC1001	TC74ACT541FT	<u>OTHERS</u>		(
IC1003	TC74VHC08FT	1101 DRIVE HEATSINK	ANH1628	
		1101 SCREW	PMH30P080FTC	
APACITORS				
C1001	CEHAT470M25			
C1002-C1004	CKSSYB104K10			
FEICTORE		[50 X SUS BLOCK]		
ESISTORS	DAD 40 470 '	<u>SEMICONDUCTORS</u>		
R1001, R1002, R1005 R1003, R1004, R1007	RAB4C470J	IC1202	HCPL-M611	
Other Resistors	RAB4C472J	IC1205	NJM2872F05	
Other Desistors	RS1/16S###J	IC1203, IC1207	STK795-512A	
THERS		IC1206	TND301S	
CN1001 30P FFC CONNECTER	AKM1218	IC1204, IC1209	TND307TD	l
CITION ON THO CONNECTED	ALVINITE TO	Q1209	2SA1727	
		Q1203	2SD1898	
X RESONANCE BLOCK]		Q1205	2SK2865	
EMICONDUCTORS		Q1208	DTC124EUA	
IC1103	BA10393F	Q1201	HN1B04FU	
IC1103 IC1101, IC1102	TND506MD			
Q1113	2SC4116	D1212	1SS302	
Q1102, Q1103, Q1111, Q1112	2SK3555-01MR	D1211, D1213	1SS355	
Q1105, Q1108, Q1109	2SK3592-01S	D1204, D1217	D1FL40	
•		D1201, D1207	EC10QS04	
Q1101, Q1104, Q1107, Q1110	QSZ2	D1208	UDZS5R6(B)	
D1109, D1122	1SS302	0011 0 4410 511 5550		
D1112, D1119, D1135, D1136	1SS355	COILS AND FILTERS		
D1101, D1102, D1104, D1105	D1FL40	L1204, L1205	ATH1112	
D1107, D1108, D1111, D1114-D1117	D1FL40	L1202, L1207	LFEA100J	
	D4EL40	L1203, L1206	LFEA470J	
D4400 D4404 D440= E440=	D1FL40	CADACITORS		
	RF2001T3D	<u>CAPACITORS</u>	1054455	
D1103, D1113, D1118, D1125	DECOCATOR	C1214-C1216, C1228-C1230	ACE1163	
D1103, D1113, D1118, D1125 D1129, D1130	RF2001T3D	· · · · · · · · · · · · · · · · · · ·	ACE1170	
D1103, D1113, D1118, D1125 D1129, D1130	RF2001T3D UDZS16(B)	C1245	ACE1173	
D1120, D1121, D1127, D1128 D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123		C1245 C1209 (0.1/630V)	ACG1092	
D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123 DILS AND FILTERS	UDZS16(B)	C1245 C1209 (0.1/630V) C1219, C1231	ACG1092 ACH1415	
D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123 OILS AND FILTERS L1103, L1105	UDZS16(B) ATH1119	C1245 C1209 (0.1/630V)	ACG1092	
D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123 OILS AND FILTERS L1103, L1105 L1104	UDZS16(B) ATH1119 ATH1155	C1245 C1209 (0.1/630V) C1219, C1231 C1246	ACG1092 ACH1415 CEHAT221M25	
D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123 OILS AND FILTERS L1103, L1105 L1104 L1102	UDZS16(B) ATH1119 ATH1155 ATH1156	C1245 C1209 (0.1/630V) C1219, C1231 C1246 C1201, C1203, C1207, C1220	ACG1092 ACH1415 CEHAT221M25 CEHAT470M25	
D1103, D1113, D1118, D1125 D1129, D1130 D1110, D1123 OILS AND FILTERS L1103, L1105 L1104	UDZS16(B) ATH1119 ATH1155	C1245 C1209 (0.1/630V) C1219, C1231 C1246	ACG1092 ACH1415 CEHAT221M25 CEHAT470M25	

2 3 4 **Description Description** Part No. Mark No. Part No. Mark No. C1243 CKSRYB104K16 **RESISTORS** C1202, C1205, C1206, C1247 CKSRYF104Z50 R1073, R1074 RS1/16S1001F R1075 RS1/16SS102J

A **RESISTORS**

R1230 ACN1166 R1208, R1260, R1261 ACN1174 R1255 ACN1178 R1256 ACN1198 R1226, R1251 RS1MMF331J

R1235, R1236 RS2MMF121J Other Resistors RS1/16S###J

OTHERS

В

KN1201-KN1205, KN1208, KN1210 ANK-142 KN1211, K1212, KN1214 ANK-142 GROUND PLATE

CN1201 CONNECTOR B12B-EH

[50 X D-D CON BLOCK]
SEMICONDUCTORS

 IC1402
 MIP2E3DMU

 IC1401, IC1403
 PS2701A-1(L)

 IC1404
 TA76431FR

 Q1401
 2SA1576A

 Q1402
 2SC4116

COILS AND FILTERS

T1401 ATK1153 L1401 LFEA101J

CAPACITORS

C1401, C1402 ACH1361
C1404 CEHAT101M16
C1405 CEHAT101M25
C1409 CEHAT331M16
C1403, C1407, C1408, C1411 CKSRYB104K16

C1406 CKSRYF104Z50

RESISTORS

R1405, R1406, R1408-R1410, R1414 RS1/10S3602F R1420 RS1/16S1101F R1403 RS1/16S2702F R1401, R1404 RS1/16S4701F R1417 RS1/16S7500F

E VR1401 CCP1390 Other Resistors RS1/16S###J

PANEL SENSOR ASSY

SEMICONDUCTORS

IC1072 MM1522XU IC1071 MM3012XN

CAPACITORS

C1071, C1074, C1075 CKSRYB103K50 C1072, C1073 CKSRYF105Z10 X CONNECTOR A ASSY

RS1/16SS471J

RS1/16SS473J

RS1/16S###J

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This assembly has no service parts.

R1071

R1072

Other Resistors

X CONNECTOR B ASSY

This assembly has no service parts.

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PDP-504CMX/1

PCB Parts for PDP-434C	WX	Mark No. Description	Part No.
ark No. Description	Part No.	CAPACITORS	
drk 140. Description	<u>1 art 140.</u>	C2001	CEHAT470M16
		C2007	CKSRYB471K50
43 ADDRESS ASSY		C2002-C2006, C2008	CKSSYB104K10
3 ADR LOGIC BLOCK]		G2002-G2006, G2006	CK331B104K10
EMICONDUCTORS		<u>RESISTORS</u>	
IC1501	PEE001B	R2045	RAB4C0R0J
		R2055	RAB4C100J
OILS AND FILTERS		R2025	RAB4C101J
L1504	QTL1013	R2018, R2019	RAB4C102J
L1304	QILIUIS	R2002, R2004, R2013-R2015	RAB4C470J
		n2002, n2004, n2013-n2015	NAD4C4703
<u>APACITORS</u>		Bassa Bassa Bassa Bassa Bassa	5.5.6.55
C1501, C1502 (47/6.3V)	ACH1357	R2005, R2006, R2012, R2016, R2017	
C1509, C1510	CKSSYB102K50	Other Resistors	RS1/16S###J
C1503-C1507, C1555, C1558, C1561	CKSSYF104Z16		
C1564	CKSSYF104Z16	OTHERS	
	0.100.1.10.1.10	CN2001 50P CONNECTER	AKM1201
FCICTORC		CINESOT COT CONNECTED	74441201
<u>ESISTORS</u>			
R1510, R1519, R1522	RAB4C470J	740 V 00 AN DI 00 KI	
R1505-R1509, R1530, R1531	RS1/16SS1000F	[43 Y SCAN BLOCK]	
R1511-R1518, R1520-R1521	RS1/16SS470J	<u>SEMICONDUCTORS</u>	
R1523-R1524	RS1/16SS470J	IC2101, IC2103-IC2106, IC2108, IC21	09 HCPL-M611
R1536-R1539	RS1/16SS470J	IC2111, IC2112	PST3638UR
		IC2102, IC2107	TC74ACT540FT
Other Resistors	DC1/16C### I	102102, 102101	1014A01340F1
Other Desistors	RS1/16S###J	OOU O AND EU TERO	
TUEDO		COILS AND FILTERS	
<u>THERS</u>		L2101-L2103	LFEA100J
CN1501 40P FFC CONNECTER	AKM1215		
		CAPACITORS	
		C2104, C2111	ACH1406
3 ADR RESONANCE BLOCK]		*	
		C2101, C2107, C2113	CEHAT221M16
EMICONDUCTORS		C2118, C2119	CKSRYB102K50
IC1601-IC1603	TND307TD	C2116, C2117	CKSRYB471K50
Q1604	2SA1163	C2102, C2103, C2105, C2106	CKSSYB104K10
Q1601	HAT1110R		
Q1602, Q1603	HAT3021R	C2108-C2110, C2112, C2114	CKSSYB104K10
D1601	1SS302		
2.001	.55552	RESISTORS	
D1605 D1608	DE061UA1D		DAD4CODO!
D1605-D1608	RF051UA1D	R2138, R2141	RAB4C0R0J
D1602-D1604	UDZS15(B)	R2121, R2128	RAB4C472J
		Other Resistors	RS1/16S###J
OILS AND FILTERS			
L1601, L1602	ATH1163	OTHERS	
		CN2101, CN2102 15P CONNECTER	VKW1300
ADACITODS		CINZ TO I, CINZ TOZ TOP CONNECTER	ANIVITZUU
APACITORS			
C1605 (0.1/100V)	ACG1098		
C1607, C1615 (0.1/100V)	ACG1121	[43 Y RESONANCE BLOCK]	
C1613 (47/6.3V)	ACH1357	SEMICONDUCTORS	
C1603 (47/16V)	ACH1391	IC2211	BA10393F
C1601, C1602 (56/80V)	ACH1405	IC2211 IC2201, IC2202	TND506MD
(00,000)			
C1600 C1614	CKSDVB104K05	Q2213	2SC4081
C1609, C1614	CKSRYB104K25	Q2205, Q2206, Q2208, Q2209	2SK3555-01MR
C1604, C1608, C1612	CKSSYF104Z16	Q2212	2SK3592-01S
<u>ESISTORS</u>		Q2202, Q2203	2SK3864
R1620 (10, 1/2W)	ACN1174	Q2201, Q2204, Q2207, Q2210	QSZ2
R1602, R1608-R1611	RS1/16SS220J	D2209, D2223	1SS302
Other Resistors	RS1/16S###J	D2228, D2229, D2232, D2233	1SS355
Curior Ficolotora	1.01/100###0		
		D2202-D2205, D2207, D2208	D1FL40
		D2212-D2214, D2216-D2219	D1FL40
43 Y DRIVE ASSY		D2221, D2222	D1FL40
		D2201, D2206, D2211, D2220, D2225	RF2001T3D
IS A I UCIC BI UCAI		D2230	RF2001T3D
3 Y LOGIC BLOCK]		D2210, D2224	UDZS16(B)
-		DLL 10, DLLL	352310(5)
-	TC74ACT540FT		
EMICONDUCTORS IC2002		COULC AND FUTERS	
EMICONDUCTORS IC2002 IC2001, IC2003	TC74ACT541FT	COILS AND FILTERS	
EMICONDUCTORS IC2002 IC2001, IC2003 IC2005, IC2006	TC74ACT541FT TC74VHC08FT	L2202	ATH1119
EMICONDUCTORS IC2002 IC2001, IC2003	TC74ACT541FT		ATH1119 ATH1133

В

С

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	Mark No. Descrip	otion Part No.	<u>Ma</u>	ark No.	Description	Part No.
	L2203, L2205 L2201	ATH1134 LFEA470J		C2336 C2316, C2331		ACH1407 ACH1414
Α	CAPACITORS			C2303, C2342		ACH1416
	C2212-C2214, C2226, C222	27 ACE1168		C2343		CCSRCH102J50
	C2211, C2224, C2238 (100I	,		C2306	00000 00040 00040	CEHAT221M25
	C2240 (0.22/250V)	ACG1104			, C2339, C2340, C2349 , C2338, C2348	CEHAT470M16 CEHAT470M25
	C2210, C2223 (0.22/250V) C2202, C2205, C2216, C22	ACG1112 17 CCSRCH331J50		02304, 02320	, 02330, 02340	OLI IAI 47 OIVIZS
	02202, 02203, 02210, 022	17 00311011031030		C2305, C2322	, C2323, C2325, C2341	CKSRYB104K16
	C2203, C2218	CKSRYB105K6R	3	C2347	_	CKSRYB105K6R3
	C2230, C2232, C2233, C22			C2301, C2307	, C2344	CKSRYF104Z50
	C2201, C2208, C2215, C22	19 CKSYB105K25	R	ESISTORS		
	RESISTORS		-11	R2364, R2365		ACN1162
_	R2240, R2241	RS1/10S1003F		R2332		ACN1166
В	R2244-R2247	RS1/10S100J		R2367, R2379	-R2386	RS1/10S0R0J
	R2260, R2261	RS1/10S220J		R2368 R2309		RS1/10S151J
	R2205, R2211, R2213, R22 R2253, R2265	20, R2221 RS1/10S2R2J RS1/10S2R2J		n2309		RS1MMF132J
	112230, 112203	1101/10021120		R2310, R2311		RS1MMF472J
	R2234	RS1/16S1002F			, R2322, R2325	RS3LMF100J
	R2235	RS1/16S4701F		R2348, R2352, Other Resistors	, R2358, R2359	RS3LMF1R8J RS1/16S###J
	R2233, R2242 R2215, R2230	RS1/16S8201F RS1MMF101J		Office nesistors	5	NO 1/100###J
	R2256, R2259	RS2MMF5R6J	0	THERS		
	,				05, KN2310, KN2312	ANK-142
	VR2201-VR2204	CCP1390			16 GROUND PLATE	ANK-142
С	Other Resistors	RS1/16S###J		CN2301 CON	NECTOR	B11B-EH
	OTHERS					
	2201 DRIVE HEATSINK	ANH1628	[4	3 Y D-D CON	BLOCK]	
	2201 SCREW	PMH30P080FTC	<u>S</u>	<u>EMICONDU</u>	<u>CTORS</u>	
				IC2406		BA10358F
	[43 Y SUS BLOCK]			IC2401	5, IC2407, IC2409	MIP2E3DMC PS2701A-1(L)
	SEMICONDUCTORS			IC2410-IC2412		TA76431FR
	IC2302	HCPL-M611		Q2402, Q2407		2SA1037K
	IC2305	NJM2872F05		00440		0044400
	IC2303, IC2307	STK795-511		Q2410 Q2417		2SA1163 2SA2005
D	IC2310 IC2301, IC2304	TC7SH04FU TND301S		Q2405		2SC2713
	102001, 102001	11120010			Q2416, Q2419	2SC4081
	IC2311	TND307TD		Q2403		2SD1664
	Q2313 Q2310	2SA1727 2SC4081		Q2401, Q2404		2SD1898
	Q2310 Q2303	2SD1898		Q2415		HN1C01FU
	Q2302	2SK3325-Z		D2430		1SS301
_	_			D2410, D2419, D2409, D2418		1SS302 1SS355
	Q2312 Q2309	2SK3694-01S HN1B04FU		D2409, D2416		155500
	D2322	1SS302		D2402		D1FK70
	D2301, D2302, D2312, D23	25 1SS355		D2404-D2407		D1FL20U(S)
Е	D2324	D1FL40		D2414 D2403		D1FL40 EC8FS6
_	D2319	EC10QS04		D2401		U1ZB330
	D2320	RF051UA1D				
	D2323	UDZS16(B)		D2412, D2413,	, D2422	UDZS15(B)
	D2306	UDZS5R6(B)		D2437, D2438 D2432		UDZS33(B) UDZS4R3(B)
	COILS AND FILTERS			D2423, D2431		UDZS5R6(B)
_	L2306, L2307	ATH1112	_			
	L2304, L2309	LFEA100J	<u>C</u>	OILS AND F	<u>FILTERS</u>	ATI/4450
	L2308	LFEA101J		T2402 T2403		ATK1156 ATK1157
	L2301, L2302, L2305	LFEA470J		T2403		ATK1157 ATK1158
F	CAPACITORS			L2402		LFEA100J
r	C2309-C2311, C2327, C232	29, C2330 ACE1163		L2401		LFEA101J
	C2314	ACE1165		L2403		LFEA470J
	C2346 (0.33/100V)	ACG1118				
	76	F	PDP-504CMX/1			
	1	2		3		4

■ 5	—	6			7		8		
Mark No.	Description	Part No.	<u> </u>	Mark No.	Descripti	<u>ion</u>	Part No.		
CAPACITORS				R3036			RAB4C221J		
C2406		ACH1360		Other Resiste	ors		RS1/16S###J		
C2401		ACH1361		OTHERS				А	
C2427 C2403		CEHAT100M50 CEHAT101M16			P CONNECTER N	IONPR	AKP1261	A	
C2405, C2407,	C2417	CEHAT101M25			04, K3009, K3015,		AKX9002		
,					1 TEST PIN		AKX9002		
C2414		CEHAT221M16							
C2410		CEHAT221M25		40.00	AND 400V				
C2411 C2420		CEHAT331M25 CEHAT470M2A			AN B ASSY	Y			ı
C2409, C2419		CKSRYB103K50		SEMICOND					
				IC3201-IC32	:06		SN755866PZP		
	C2413, C2423, C2425			CAPACITOR	38				
C2434-C2436, (C2415, C2421,		CKSRYB104K16 CKSRYB105K6R3			<u>10</u> 11, C3212 (0.1/250	0V)	ACG1088		
	C2426 C2416, C2418, C2426				23, C3233 (0.1/250		ACG1088	В	3
C2429	02.10, 02.10, 02.20	CKSRYF104Z50			14, C3245 (0.1/250		ACG1088		
					56, C3266 (0.1/250		ACG1088		
RESISTORS				,	04, C3214, C3215	,	CCSRCH101J50		
R2429		ACN1225		U3228, U323	37, C3239, C3247	, 03251	CCSRCH101J50		
R2435, R2439		RS1/10S2202F		C3258, C325	59		CCSRCH101J50	_	
R2402-R2404 R2442		RS1/10S3902F RS1/16S1201F		C3206, C321	17, C3232, C3243	, C3249	CCSRCH181J50		
R2468		RS1/16S1202F		C3261			CCSRCH181J50		
					10, C3216, C3221		CCSRCH331J50		
R2424, R2427		RS1/16S2001F		C3230, C323	31, 03241, 03242	, 03248	CCSRCH331J50		
R2420, R2438		RS1/16S2201F		C3254, C326	60, C3265		CCSRCH331J50		
R2451 R2467		RS1/16S2202F RS1/16S3301F		C3208, C320	09, C3219, C3220		CCSRCH390J50	С	;
R2452, R2453		RS1/16S3302F			38, C3240, C3252	, C3253			
,				C3263, C326		00040	CCSRCH390J50		
R2457-R2460		RS1/16S4701F		C3202, C321	13, C3224, C3235	, C3246	CKSRYB105K6R3		
R2506		RS3LMF151J		C3257			CKSRYB105K6R3		
VR2401, VR240 Other Resistors		CCP1390 RS1/16S###J							ı
Other resistors		1101/100###0		RESISTORS	<u>S</u>				
OTHERS				•	10, R3216, R3224	, R3229			
2401 HEATSIN	K	ANH1614		R3235			RAB4C221J		
2401 SCREW		BBZ30P080FTC		Other Resiste	ors		RS1/16S###J		
				OTHERS				_	
43 SCAI	N A ASSY				CONNECTER N	IONPB	AKP1261	D	,
SEMICONDUC					8, K3214, K3216,	K3218	AKX9002		
IC3001-IC3006	<u>Jions</u>	SN755866PZP		K3221 TEST	ΓPIN		AKX9002		
103001-103000		3117330001 21							
CAPACITORS				AV 1/0	ASSY				
	C3012 (0.1/250V)	ACG1088		[AV I/O BLO					ı
	C3024 (0.1/250V)	ACG1088		SEMICOND	•				
	C3045 (0.1/250V)	ACG1088		IC7609	0010110		24LCS21A		
, ,	C3057 (0.1/250V) C3016, C3019, C3026	ACG1088 CCSRCH101J50		IC7610, IC76	613		AN5870SB		
	C3040, C3048, C3051	CCSRCH101J50		IC7602, IC76	605-IC7607		BA4558F-HT		
				IC7603			BD3869AF	Е	
C3060, C3063		CCSRCH101J50		⚠ IC7604			NJM78L09UA		
	C3033, C3044, C3050	CCSRCH181J50		IC7601, IC76	608		TC4052BFT		
C3062 C3006, C3011,	C3017 C3022	CCSRCH181J50 CCSRCH331J50		IC7612			TC74AC04FT		
	C3042, C3043, C3049	CCSRCH331J50		IC7611			TC74VHCT541AFT		
				Q7602, Q760	05, Q7702		2SC4116	_	
C3055, C3061,		CCSRCH331J50		Q7603			DTA124EUA		
	C3020, C3021, C3028	CCSRCH390J50		Q7604, Q760	06-Q7608		DTC124EUA		
C3064, C3065	C3041, C3053, C3054	CCSRCH390J50 CCSRCH390J50		Q7701			HN1C01FU		
	C3025, C3036, C3047	CKSRYB105K6R3		Q7601			RN1902		
, ,	, ,			Q7609			SM6K2		
C3058		CKSRYB105K6R3		D7601			1SS301	F	:
DECIOTORS				D7606-D760	8, D7610, D7611		1SS302		
RESISTORS	D0047 D0005 D0000	DAD40004 !			14, D7616, D7617		1SS302		
H3003, H3011,	R3017, R3025, R3030	HAB4U221J		D7619, D770			1SS355		
			PDP-504					77	
= 5	5 -	6			7		8		ı

	Mark No. Description	Part No.	Mark No.	Description	Part No.
	D7602, D7603, D7605, D7609 D7604	UDZS5.6B UDZS6.8B	CAPACITOR	S	
			C8706, C870		CCSRCH120J50
Α	<u>CAPACITORS</u>		C8708, C871		CEHAT470M16
	C7633, C7634	CCSRCH101J50	C8704, C871		CEHAT471M6R3
	C7673, C7674 C7631, C7632	CCSRCH220J50 CCSRCH221J50	C8717, C872 C8722-C8724		CKSRYB103K50 CKSRYB471K50
	C7611, C7612	CCSRCH471J50	00122 0012	•	OROTTI D-7 ITOO
	C7722	CEHAT100M50	C8709		CKSRYB472K50
	_			3, C8705, C8711-C8713	CKSSYF104Z16
	C7654	CEHAT101M10	C8715, C871	6, C8719, C8721, C8725	CKSSYF104Z16
	C7665 C7623, C7648	CEHAT101M16 CEHAT220M50	RESISTORS		
	C7705	CEHAT221M6R3		! 0, R8723, R8724, R8726	RAB4C101J
	C7714, C7716, C7718	CEHAT331M10	R8702, R870		RAB4C103J
В			R8736	,	RS1/16S1302F
Ь	C7619, C7635, C7637, C7695, C7697 C7721		Other Resisto	rs	RS1/16S###J
	C7721 C7681, C7686, C7690	CEHAT470M16 CEHAT471M16	OTHERO		
	C7601, C7602, C7609, C7610, C7614		OTHERS	10.00	A1/A4005
	C7616, C7638, C7639, C7643, C7653		CN8701 PLU K8701-K8703		AKM1225 AKX9002
				MIC RESONATOR	ASS1168
	C7627-C7630, C7640, C7650	CKSRYB102K50		STAL OSCILLATOR	ASS1172
	C7642, C7652, C7660, C7661, C7666 C7676, C7680, C7685, C7689	CKSRYB103K50 CKSRYB103K50	CN8704 PLU	IG(6P)	KM200NA6
	C7698-C7703, C7707, C7712, C7713	CKSRYB103K50			
	C7715, C7717	CKSRYB103K50	IDVI DI OCKI		
	·		[DVI BLOCK] SEMICONDI	ICTORS	
С	C7621, C7622	CKSRYB104K16	IC7502	<u>JCTORS</u>	24LCS21A
C	C7603, C7620, C7662, C7663, C7667	CKSRYB105K10	IC7511		BD6522F
	C7675, C7677, C7678, C7684 C7693, C7694, C7723	CKSRYB105K10 CKSRYB105K10	IC7503		SII1161CTU-K
	C7641, C7651	CKSRYB222K50	IC7504-IC751	0	TC74LCX541FT
	·		Q7503		DTA124EUA
_	C7646, C7656	CKSRYB471K50	Q7501, Q750	9	DTC124EUA
	C7617, C7618, C7624-C7626, C7636 C7644, C7647, C7649, C7655, C7664	CKSSYF104Z16 CKSSYF104Z16	D7501, Q750	2	1SS301
	C7668, C7679, C7682, C7683, C7687	CKSSYF104Z16	D7503, D750	4	1SS302
	C7691, C7692, C7696, C7704, C7706	CKSSYF104Z16	D7502		UDZS6.8B
			COILS AND	EII TEDO	
	C7708-C7711, C7720	CKSSYF104Z16	F7506-F7511	<u>FILIENS</u>	ATF1211
D	RESISTORS		1700017011		7411 1211
	R7751-R7753	RS1/16S2200F	CAPACITOR	<u>s</u>	
	R7712, R7725	RS1/16S2201F	· ·	6, C7530, C7532	CCSRCH101J50
	R7699-R7701, R7741-R7743	RS1/16S27R0F		5, C7537, C7538	CCSRCH101J50
	R7653, R7654, R7673, R7674 R7709-R7711	RS1/16S3301F RS1/16S75R0F	C7541, C7545 C7504, C750	2, C7546, C7548-C7550	CCSRCH101J50 CCSRCH221J50
	R/709-R/711	H31/105/5HUF	C7528, C757		CEHAT101M10
	Other Resistors	RS1/16S###J		-,	
			C7522		CEHAT221M6R3
	<u>OTHERS</u>		C7502, C751 C7503, C750	0, C7516, C7518	CEHAT470M16
	CN7602, CN7603 JACK	AKN1069	,	o 0, C7573-C7577	CKSRYB222K50 CKSRYB471K50
Е	JA7606, JA7607 15P D-SUB SOCKET CN7601 PLUG(15P)	KM200NA15		9, C7513, C7515, C7517	CKSSYF104Z16
_	SIVIOUT FEGG(ISI)	144/20014/110			
			· ·	1, C7523, C7525, C7527	CKSSYF104Z16
	[IF UCOM BLOCK]			1, C7533, C7536 0, C7543-C7545, C7547	CKSSYF104Z16 CKSSYF104Z16
	<u>SEMICONDUCTORS</u>		C7551-C7559		CKSSYF104Z16
	IC8705 IC8702	24LC01B			
	IC8702 IC8703	HD64F3687FP PST9230N	RESISTORS	1	
	IC8701	TC74VHC08FT		5, R7568-R7573	RAB4CQ0R0J
	IC8704	TC7W126FU		9, R7536, R7540	RAB4CQ100J
	00704	0014044	R7552-R7555 R7578-R7590		RAB4CQ100J RAB4CQ470J
	Q8701 Q8708	2SJ461A	R7538	•	RS1/16S3900F
F	Q8708 Q8702	DTA124EUA DTC124EUA			
	30102	DIVILTEUR	R7597, R757	4-R7577	RS1/16SS0R0J
	COILS AND FILTERS		R7533 Other Resisto	re	RS1/16SS473J RS1/16S###J
	L8702	LCTAWR68J2520	Outer nesisto	10	1101/100###J
	78	PDP-504CM>	(/1		
	1 -	2	3	-	4

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Mark No.	<u>Description</u>	Part No.	<u>Mark No.</u>	<u>Description</u>	Part No.	
OTHERO			C1104, C110	08, C1115, C1122	CKSYB105K25	
OTHERS CN7501 JA	CK	AKN1069	RESISTOR	S		
	/I SOCKET (24P)	AKP1216	R1116, R11		RS1/10S1003F	Α
CIN7503 DV	1300KET (24F)	ANT 1210	R1133, R11		RS1/10S1003I	, ,
			R1155, R11		RS1/10S220J	
43 X L	DRIVE ASSY			06, R1118, R1119, R1123		
_			R1126, R11		RS1/10S2R2J	
OTHERS	E CIDICON CLIEFT	A E 14 000				
1001 DRIVE	E SIRICON SHEET	AEH1062 ANG2664	R1136		RS1/16S1002F	
	E HEATSINK A	ANH1613	R1139		RS1/16S4701F	_
1001 SCRE		BMZ30P080FTC	R1130, R113		RS1/16S8201F	
1002 SCRE		PMB30P060FNI	R1113, R112		RS1MMF101J	
			R1147, R114	48	RS2MMF5R6J	
			VR1101-VR	1104	CCP1390	
[43 X LOGIC	BLOCK]		Other Resist		RS1/16S###J	В
SEMICOND	<u>UCTORS</u>		3 1.0. 1 130.0.			
IC1002		TC74ACT540FT	OTHERS			
IC1001		TC74ACT541FT		E HEATSINK	ANH1628	
IC1003		TC74VHC08FT	1101 SCRE	_	PMH30P080FTC	
CAPACITO	<u>RS</u>					
C1001	24	CEHAT470M25	[43 X SUS B			
C1002-C100)4	CKSSYB104K10	SEMICOND	<u>UCTORS</u>		
DECICEOR	C		IC1202		HCPL-M611	
RESISTOR		DAD 40 470 I	IC1205		NJM2872F05	
R1001, R100		RAB4C470J	IC1203, IC12	207	STK795-510	
R1003, R100 Other Resist		RAB4C472J RS1/16S###J	IC1206	200	TND301S	С
Other nesisi	1015	NO 1/ 100###J	IC1204, IC12	209	TND307TD	
OTHERS			Q1209		2SA1727	
	P FFC CONNECTER	AKM1218	Q1203		2SD1898	
0111001 001	I II O OOMNLOILII	ARWIZIO	Q1205		2SK2865	
			Q1208		DTC124EUA	
[43 X RESO	NANCE BLOCK]		Q1201		HN1B04FU	
SEMICOND						
IC1103		BA10393F	D1212		1SS302	
IC1101, IC1	102	TND506MD	D1211, D12	13	1SS355	
Q1113		2SC4116	D1204, D12		D1FL40	
Q1102, Q11	03, Q1111, Q1112	2SK3555-01MR	D1201, D120	07	EC10QS04	
Q1105		2SK3592-01S	D1208		UDZS5R6(B)	D
0			COILS AND) EII TEDS		
Q1108, Q11		2SK3864	L1204, L120		ATH1112	
	04, Q1107, Q1110	QSZ2 1SS302	L1204, L120 L1202, L120		LFEA100J	
D1109, D112	22 19, D1135, D1136	1SS355	L1203, L120		LFEA470J	
	02, D1104, D1105	D1FL40	21200, 2120		2, 2, 1, 00	_
2, 2	02, 2 , 2	22.0	CAPACITO	RS		
D1107, D110	08, D1111, D1114-D1117	D1FL40		6, C1228-C1230	ACE1163	
D1120, D112	21, D1127, D1128	D1FL40	C1245	,	ACE1173	
,	13, D1118, D1125	RF2001T3D	C1209 (0.1/6	630V)	ACG1092	
D1129, D11		RF2001T3D	C1219, C12	31	ACH1414	
D1110, D11	23	UDZS16(B)	C1246		CEHAT221M25	Е
0011 0 4115	S EU TEDO		0.00.		0=:::=:=:	_
COILS AND) FILIERS			03, C1207, C1220	CEHAT470M25	
L1104		ATH1119		24, C1238, C1239, C1248		
L1102	NF.	ATH1133	C1212, C12 C1243	13, C1225, C1240, C1241	CKSRYB104K16 CKSRYB104K16	
L1103, L110 L1101)5	ATH1134 LFEA470J		05, C1206, C1247	CKSRYF104Z50	
LIIUI		LI LA4700	01202, 012	00, 01200, 01247	OROTTI 10-1200	
CAPACITO	RS		RESISTOR	S		_
	13, C1125-C1127	ACE1168	R1260, R12		ACN1162	
	24, C1134 (100P/630V)	ACG1104	R1230		ACN1166	
C1135 (100F		ACG1104	R1208		ACN1174	
	19 (0.22/250V)	ACG1112	R1255		ACN1178	
	05, C1116, C1117	CCSRCH331J50	R1256		ACN1198	F
C1102, C11		CKSRYB105K6R3				•
			R1226, R12		RS1MMF361J	
C1128, C11	30-C1132	CKSSYB104K10	R1235, R12	36	RS2MMF121J	
						79
	_		PDP-504CMX/1	7		13
	5	6		7	8	

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Mark No. Description
Other Resistors Part No.

RS1/16S##J

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OTHERS

Α

В

KN1201-KN1205, KN1208, KN1210 ANK-142 KN1211, KN1212KN1214 ANK-142 GROUND PLATE CN1201 CONNECTOR B12B-EH

[43 X D-D CON BLOCK] SEMICONDUCTORS

 IC1402
 MIP2E3DMU

 IC1401, IC1403
 PS2701A-1(L)

 IC1404
 TA76431FR

 Q1401
 2SA1576A

 Q1402
 2SC4116

 D1406, D1409, D1410
 D1FK70

 D1407, D1408
 D1FL20U(S)

 D1405
 U1ZB330

 D1401, D1403
 UDZS5R6(B)

COILS AND FILTERS

T1401 ATK1153 L1401 LFEA101J

CAPACITORS

C 1401, C1402 ACH1361 C C1404 CEHAT101M16 C1405 CEHAT101M25 C1409 CEHAT331M16 C1403, C1407, C1408, C1411 CKSRYB104K16

C1406 CKSRYF104Z50

RESISTORS

D

F

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R1405, R1406, R1408-R1410, R1414 RS1/10S3602F R1420 RS1/16S1101F R1403 RS1/16S2702F R1401, R1404 RS1/16S4701F R1417 RS1/16S7500F

VR1401 CCP1390 Other Resistors RS1/16S###J

PANEL SENSOR ASSY

SEMICONDUCTORS

IC1072 MM1522XU IC1071 MM3012XN

CAPACITORS

C1071, C1074, C1075 CKSRYB103K50 CKSRYF105Z10

RESISTORS

R1073, R1074 RS1/16S1001F R1075 RS1/16SS102J R1071 RS1/16SS471J R1072 RS1/16SS473J Other Resistors RS1/16S###J

X CONNECTOR A ASSY

This assembly has no service parts.

X CONNECTOR B ASSY

This assembly has no service parts.

1 2

• PCB parts for PDP-504Cl	6 MX and PDP-434	ICMX	-	8	
Mark No. Description	Part No.	Mark No.	Description	Part No.	
Mark No. Description	rait No.	R7465		RS1/16S4702F	
DOD ACOV		R7460		RS1/16S6201F	
RGB ASSY		R7447		RS1/16S7500F	Α
[RGB BLOCK]		R7478		RS1/16S8201F	
<u>SEMICONDUCTORS</u>					
IC7411	BD6522F	Other Resistors		RS1/16S###J	
⚠ IC7412	M5291FP				
IC7402	MM1522XU	OTHERS			
IC7401	MM3012XN	CN7405 PLUG	120-P	AKM1203	
IC7404	NJM12904V	CN7401 PLUG		AKM1232	-
		CN7410 PLUG		AKM1270	
	PQ05DZ11	3.17.110.1.200	001	7111111270	
	PQ20WZ11				
	PQ3DZ13	[MAIN LPF BLO	OCK1		
IC7403	TC74VHC08FT	SEMICONDU			_
Q7405	2SA1586	"	<u>Jiuna</u>	ANICOZOCO	В
		IC6402		AN5870SB	
Q7407, Q7408, Q7410, Q7411	HN1A01FU	IC6404		BA7078AF	
Q7404	HN1C01FU	IC6403		BA7657F	
Q7401	RN1901	IC6401		SM5301BS	
Q7409	RN1902	IC6407		TC74VHC08FT	
D7408	1SS301	100405		TO74)/IJO40EET	
		IC6405		TC74VHC125FT	
D7407, D7409-D7414	1SS355	Q6419-Q6421		2SA1586	
D7415, D7416	EC11FS2	Q6407, Q6417	00400 00440 00440	DTC124EUA	
			Q6408, Q6410, Q6412		
COILS AND FILTERS		D6404		1SS302	
	ATH1125	0011 0 4115 =			_
		COILS AND F	<u>ILIERS</u>		С
<u>CAPACITORS</u>		L6401		LCTAW4R7J2520	
C7408	ACH1357	L6402		LCTAWR68J2520	
C7414, C7419, C7434 (100/25V)	ACH1374				
C7437 (100/25V)	ACH1374	<u>CAPACITORS</u>			
C7447, C7450 (47/16V)	ACH1391	C6409, C6436,	C6437, C6462, C6469	ACH1357	
C7416, C7423, C7424 (100/16V)	ACH1394	C6402, C6405,	C6406 (47/16V)	ACH1391	
C7430 (100/16V)	ACH1394	C6427, C6428,	C6431 (47/16V)	ACH1391	
C7418, C7421, C7426 (100/6.3V)	ACH1396	C6416, C6417,	C6424 (100/16V)	ACH1394	
C7432, C7425 (100/6.3V)	ACH1396	C6433 (100/16\	/)	ACH1399	
07402, 07443 (100/0.04)	AOITIOOO				
C7452	ACH1396	C6439 (22/16V)		ACH1400	
C7403	ACH1400	C6445		CCSRCH151J50	Б
C7428, C7429, C7448	CCSRCH221J50	C6435, C6467,		CCSRCH470J50	D
C7440, C7459-C7466	CKSRYB102K50		C6404, C6414, C6415	CKSRYB103K50	
C7407, C7409, C7453-C7455	CKSRYB103K50	C6423, C6429,	C6430, C6432, C6438	CKSRYB103K50	
01401, 01400, 01400 01400	OROTTI DI TOOROO				
C7457, C7458	CKSRYB103K50		C6451, C6454, C6456	CKSRYB103K50	
C7436	CKSRYB104K16	C6459, C6461,	C6470-C6476	CKSRYB103K50	
C7446	CKSRYB821K50	C6463		CKSRYB104K25	
C7413, C7435	CKSRYF104Z50	C6408, C6411,	C6412, C6421, C6455	CKSRYB105K6R3	
C7402, C7410	CKSRYF105Z10	C6457, C6460		CKSRYB105K6R3	
J. 10 <u>2,</u> J. 110	J. J				
C7404-C7406, C7411, C7412, C7415	CKSSYF104Z16	C6458		CKSRYB471K50	
C7417, C7420, C7422, C7425, C7427	CKSSYF104Z16	C6443		CKSRYB474K10	
C7431, C7433, C7439, C7441-C7444	CKSSYF104Z16	C6442		CKSRYB562K50	Е
C7449, C7451	CKSSYF104Z16		C6413, C6418-C6420	CKSSYF104Z16	_
07 110, 07 101	0110011 101210	C6425, C6426,	C6434, C6440, C6441	CKSSYF104Z16	
<u>RESISTORS</u>					
R7402, R7405, R7417	RAB4CQ101J	C6444, C6447,	C6448, C6450	CKSSYF104Z16	
R7402, R7403, R7417	RAB4CQ103J	C6452, C6453		CKSSYF104Z16	
R7480	RS1/10S1R5J				_
R7460 R7412, R7420, R7486	RS1/16S1001F	<u>RESISTORS</u>			
R7412, R7420, R7460 R7437, R7439, R7467, R7469, R7476	RS1/16S1001F	R6489		RAB4CQ470J	
111701, 111703, 111701, 111703, 11171	1101/10010021	R6422		RS1/16S1101F	
R7461	RS1/16S1501F	R6526-R6528		RS1/16S2200F	
R7401 R7422	RS1/16S1800F	R6428, R6429		RS1/16S3000F	
R7442 R7440, R7445	RS1/16S1800F RS1/16S2201F	R6547-R6549		RS1/16S75R0F	
R7440, R7445 R7477	RS1/16S2201F RS1/16S2202F				F
R7484	RS1/16S3301F	Other Resistors		RS1/16S###J	
117 TOT	1.01/10000011				
R7438	RS1/16S4700F				
111 700	1.01/1004/001				0.1

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ark No. Description	Part No.	Mark No.	Description	Part No.
OTHERS		C6638		CKSRYB103K5
K6401-K6406 TEST PIN	AKX9002	C6604, C6624		CKSRYB104K1
CN6402 PLUG(6P)	KM200NA6			
,		C6648		CKSRYB104K2
		C6608, C6611,	C6612, C6621	CKSRYB105K6
MAIN AD BLOCK]		C6630-C6632		CKSRYB105K6
EMICONDUCTORS		C6646, C6656-	C6661	CKSRYB471K5
IC6001	CXA3516AR	C6609, C6614,	C6623	CKSRYB473K1
IC6002-IC6008	TC74LCX541FT			
Q6001	2SC4116	C6642		CKSRYB474K1
D6001	1SS355	C6641		CKSRYB562K5
20001	100000	C6602		CKSRYB822K5
OILS AND FILTERS		C6601		CKSRYB823K1
L6001	LCTAWR68J2520	C6605-C6607,	C6610, C6613	CKSSYF104Z1
20001	LO 1/4VI 1000/25/20	00045 00000	00005 00000 00004	01/00//540474
APACITORS			C6625-C6629, C6634	CKSSYF104Z1
	ACUI1000	C6639, C6643,	C6645, C6647	CKSSYF104Z1
C6001, C6005, C6010 (100/6.3V)	ACH1396	C6649-C6655		CKSSYF104Z1
C6028, C6041, C6043 (100/6.3V)	ACH1396	DEGLOTODO		
C6051, C6054 (100/6.3V) C6020	ACH1396	<u>RESISTORS</u>		
C6020 C6011	CCSRCH101J50 CCSRCH220J50	R6699-R6710,	R6723-R6728	RAB4CQ0R0J
C6017	CCSRCH331J50	R6729-R6734		RAB4CQ101J
00017	UCUICITOOIUU	R6608, R6613,		RAB4CQ470J
C6003, C6018, C6024, C6025	CKSRYB105K6R3	R6643, R6644,		RAB4CQ470J
C6033, C6034, C6037, C6038, C6045	CKSRYB105K6R3	R6676-R6678,	R6681-R6685	RAB4CQ470J
C6062-C6068	CKSRYB471K50			
C6002, C6004, C6006-C6009	CKSSYF104Z16	R6612, R6619,	R6620	RS1/16S1000F
C6012-C6016, C6021-C6023	CKSSYF104Z16	R6625		RS1/16S1101F
C0012-C0010, C0021-C0023	CR3311 104210	R6607, R6611,	R6626	RS1/16S1300F
C6026, C6027, C6029-C6032	CKSSYF104Z16	R6601		RS1/16S2701F
C6035, C6036, C6039, C6040, C6042	CKSSYF104Z16	Other Resistors	;	RS1/16S###J
C6044, C6046-C6050, C6052, C6053	CKSSYF104Z16			
C6055-C6061	CKSSYF104Z16	<u>OTHERS</u>		
00000 00001	OROOTI 104210	K6601-K6607	TEST PIN	AKX9002
RESISTORS				
R6001, R6004, R6013, R6014	DAD4004001			
,,	RAB4CQ100J	[BUS SW1 BL0	OCK]	
R6020, R6021, R6024, R6027, R6033 R6038, R6044, R6054	RAB4CQ100J RAB4CQ100J	<u>SEMICONDU</u>	<u>CTORS</u>	
R6073-R6085	RAB4CQ330J	IC5701		PD6435A
R6023	RN1/16SE3001D			
H0023	HIVI/103E3001D	CAPACITORS	6	
R6018	RS1/16S2201F	C5701 (47/16V		ACH1391
R6016	RS1/16S2701F	C5709, C5710	,	CCSRCH150J5
R6019	RS1/16S3301F	C5721-C5737		CKSRYB103K5
Other Resistors	RS1/16S###J	C5702-C5708,	C5711, C5712	CKSSYF104Z1
Other resistors	110 1/ 100πππ0	C5714-C5718	,	CKSSYF104Z1
THERS				
K6001-K6007. K6010-K6013 TEST PIN	I VKA0000	RESISTORS		
K0001-K0007, K0010-K0013 TEST PIN	I AKA9002		R5708-R5712, R5714	RAB4CQ100J
			R5735, R5739-R5750	RAB4CQ100J
SIIR I DE 8 AD DI OCKI		R5755, R5756,		RAB4CQ100J
SUB LPF & AD BLOCK]		R5768-R5771		RAB4CQ100J
EMICONDUCTORS	A.D. 0.00 (1170 - 1	R5728-R5734,	R5782-R5787	RAB4CQ103J
IC6602	AD9883AKST-110			
IC6604	BA7078AF	Other Resistors	;	RS1/16S###J
IC6601	SM5301BS	2 1.00.01010		
IC6608-IC6614	TC74LCX541FT	OTHERS		
IC6605	TC74VHC08FT	CN5701 PCIS	OKET120-D	AKP1220
100000 10000-	TOT 1/1/10:00===		MIC RESONATOR	ASS1169
IC6603, IC6607	TC74VHC125FT	AUTUI OLDAN	IIO I ILOUINAI ON	A001108
Q6603, Q6604	DTC124EUA			
Q6605	HN1B04FU	[BUS SW2 BL0	OCK1	
		-	-	
OILS AND FILTERS		SEMICONDU	CIUNS	DD04054
F6601	ATF1194	IC5801		PD6435A
L6701	LCTAWR68J2520			
		<u>CAPACITORS</u>		
CAPACITORS		C5801 (47/16V)	ACH1391
C6635-C6637, C6640	ACH1357	C5809, C5810		CCSRCH150J5
C6633 (100/16V)	ACH1399	C5802-C5808,	C5811, C5812	CKSSYF104Z1
C6644	CCSRCH151J50	C5814-C5818		CKSSYF104Z1
	PDP-50			

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lark No. Description	Part No.	Mark No. Description	Part No.	
RESISTORS	1 4111141	main 110: = = = = = = = = = = = = = = = = = = =	1 4111141	
R5816-R5825, R5827, R5835, R5849	RAB4CQ100J	R7120, R7150, R7151	RS1/16SS101J	
R5852, R5854, R5856, R5858, R5860	RAB4CQ100J	R7101	RS1/16SS103J	
R5868-R5871, R5877	RAB4CQ100J	R7103, R7104, R7112, R7114	RS1/16SS330J	Α
R5802-R5808, R5812-R5814, R5831	RAB4CQ103J	R7122, R7126, R7127, R7130, R7131	RS1/16SS330J	
R5837, R5844, R5883	RAB4CQ103J	R7134-R7135	RS1/16SS330J	
R5845, R5850, R5851, R5853, R5855	RAB4CQ470J	R7138, R7139, R7152	RS1/16SS330J	
R5857, R5859, R5861-R5863, R5876	RAB4CQ470J	R7149	RS1/16SS472J	
Other Resistors	RS1/16S###J	Other Resistors	RS1/16S###J	
THERS		OTHERS		_
X5801 CERAMIC RESONATOR	ASS1169	CN7101 114PFFC CONNECTER	AKM1216	
A3801 GENAIVIIG RESCINATOTI	A551105	K7101, K7102 TEST PIN	AKX9002	
C2 BLOCK]				_
EMICONDUCTORS		[IC3 FLASH BLOCK]		В
IC7001, IC7002	IC42S32200-7TG-K	<u>SEMICONDUCTORS</u>		
IC7004	PE5362A	IC7152	MBM29PL3200BE70PFV	
IC7003	TC74LCX125FT			
		CAPACITORS	01/00/15:5:5:5	
OILS AND FILTERS		C7152, C7153, C7155-C7158, C7160	CKSSYF104Z16	
F7001, F7002	ATF1194	C7162	CKSSYF104Z16	
<u>APACITORS</u>		RESISTORS		
C7029, C7041 (100/6.3V)	ACH1396	R7155-R7160	RS1/16SS472J	
C7065	CCSRCH100D50	Other Resistors	RS1/16S###J	
C7066-C7068	CCSRCH221J50			
C7001-C7024, C7026-C7028	CKSSYF104Z16			С
C7032-C7040, C7042-C7063	CKSSYF104Z16	[MAIN UCOM BLOCK]		
07001	DOLI116E	<u>SEMICONDUCTORS</u>	0.41.04.00(1).00.1	
C7031	DCH1165	IC7205	24LC128(I)SN	
ESISTORS		IC7201, IC7204 IC7207	74VHCT00AMTC MB91F355APMTGE1	
R7034	DAD4CO470 I	IC7207	PST3612UR	_
R7034 R7027, R7037	RAB4CQ470J RS1/16SS0R0J	IC7210 IC7203, IC7206	PST3628UR	
R7027, R7037 R7023, R7035-R7036	RS1/16SS101J	107200, 107200	. 010020011	
R7001, R7008	RS1/16SS101J	IC7209	TC74VHC08FT	
R7002-R7004, R7024	RS1/16SS103J	IC7202	TC74VHC125FT	
•		IC7208	TC74VHCT541AFT	
R7006, R7009, R7012	RS1/16SS220J	Q7201	2SJ461A	_
R7011	RS1/16SS820J	Q7202	DTC124EUA	D
Other Resistors	RS1/16S###J	Page	100055	
		D7202	1SS355	
THERS	ALC/COOC	D7203	SML-310MT	
K7001-K7003 TEST PIN	AKX9002	CAPACITORS		
X7001 CRYSTAL OSCILLATOR	ASS1174	CAPACITORS C7205, C7236	ACH1391	
		C7205, C7236 C7143, C7203	CCSRCH220J50	
		C7213, C7218	CCSRCH7R0D50	
3 BI OCKI		0 0, 0 0	CKSRYB102K50	
-		C7248-C7251	CNORTDIUZNOU	
EMICONDUCTORS	04LC00P/I\CN	C7248-C7251 C7235, C7245	CKSRYB103K50	
EMICONDUCTORS IC7102	24LC02B(I)SN	C7248-C7251 C7235, C7245		
EMICONDUCTORS IC7102	24LC02B(I)SN PD5855A			F
EMICONDUCTORS IC7102 IC7101	` '	C7235, C7245	CKSRYB103K50	E
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS	PD5855A (C7235, C7245 C7226, C7237 C7230, C7242 C7216	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50	E
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS	` '	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16	E
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS F7101, F7102	PD5855A (C7235, C7245 C7226, C7237 C7230, C7242 C7216	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50	E
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS F7101, F7102 APACITORS	PD5855A ATF1194	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16	Е
EMICONDUCTORS IC7102 IC7101 OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V)	PD5855A (C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	E
EMICONDUCTORS IC7102 IC7101 OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141	PD5855A ATF1194 ACH1396	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119	PD5855A ATF1194 ACH1396 CCSRCH100D50	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	
EMICONDUCTORS IC7102 IC7101 DILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142 ESISTORS	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16 CKSSYF104Z16	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244 C7246, C7247 RESISTORS R7231	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	
EMICONDUCTORS IC7102 IC7101 OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142 ESISTORS R7102, R7105-R7108, R7110, R7111	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ330J	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244 C7246, C7247 RESISTORS R7231 R7229	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16	•
EMICONDUCTORS IC7102 IC7101 OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142 ESISTORS R7102, R7105-R7108, R7110, R7111 R7128, R7129, R7132, R7133	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ330J RAB4CQ330J	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244 C7246, C7247 RESISTORS R7231 R7229 R7256	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ0R0J RAB4CQ101J RAB4CQ103J	•
EMICONDUCTORS IC7102 IC7101 OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142 ESISTORS R7102, R7105-R7108, R7110, R7111 R7128, R7129, R7132, R7133 R7136, R7137	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ330J RAB4CQ330J RAB4CQ330J RAB4CQ330J	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244 C7246, C7247 RESISTORS R7231 R7229 R7256 R7218, R7219, R7284-R7286, R7301	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ0R0J RAB4CQ101J RAB4CQ103J RAB4CQ103J RAB4CQ470J	•
OILS AND FILTERS F7101, F7102 APACITORS C7103, C7120, C7138 (100/6.3V) C7141 C7101, C7102, C7104-C7119 C7121-C7137, C7139, C7140, C7142 ESISTORS R7102, R7105-R7108, R7110, R7111 R7128, R7129, R7132, R7133	PD5855A ATF1194 ACH1396 CCSRCH100D50 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ330J RAB4CQ330J	C7235, C7245 C7226, C7237 C7230, C7242 C7216 C7201, C7202, C7209-C7212 C7214, C7215, C7219-C7225 C7227-C7229, C7232-C7234, C7238 C7240, C7241, C7243, C7244 C7246, C7247 RESISTORS R7231 R7229 R7256	CKSRYB103K50 CKSRYB104K16 CKSRYB104K25 CKSRYB472K50 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 CKSSYF104Z16 RAB4CQ0R0J RAB4CQ101J RAB4CQ103J	

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	Mark No. De	escription	Part No.		Mark No.	Description	Part No.
Α	R7201 R7212, R7232 R7208-R7209, R7210 R7207, R7221-R7223 R7228, R7230, R724	3, R7225-R7226	RAB4CQ472J RS1/16S1202F RS1/16SS0R0J RS1/16SS470J RS1/16SS470J				RAB4C101J RAB4C101J RAB4C103J RAB4C472J
	R7263, R7278-R7279 R7315-R7316, R7318 Other Resistors		RS1/16SS470J RS1/16SS470J RS1/16S###J		R5256, R52 R5294	57	RAB4C474J RS1/16S0R0J
	OTHERS				Other Resist	tors	RS1/16S###J
	CN7201 PLUG 8-P X7201 CERAMIC RE	ESONATOR	AKM1225 ASS1170		OTHERS CN5201 PL CN5202 CC ⚠ X5201 CER		AKM1225 AKM1274 ASS1178
В	SIDE KEY A				IDANEL ELA	CH BI OCKI	
	S4801-S4811 OTHERS		ASG1088		[PANEL FLA SEMICOND IC5305	_	MBM29PL160BD-75PFTN
	CN4801 8P CONNE	CTER	AKM1207		IC5303 IC5301 IC5302 Q5301		PST3612UR PST3628UR SN74AHC08PW RN1901
	DIGITAL VII	[]			D5301-D531	10	DA204U
С	COILS AND FILTE F5001, F5002, F5004		ATF1213		CAPACITO C5320 C5321, C53		CCSRCH470J50 CCSRCH471J50
	RESISTORS R5101-R5115, R513 Other Resistors	1	RAB4C470J RS1/16SS###J		C5311, C53 C5303, C53 C5304, C53	14 06	CKSRYB104K16 CKSRYB472K50 CKSSYB102K50
	OTHERS CN5001 114PFFC C CN5002 CONNECTO	-	AKM1216 AKM1281		C5301, C53 C5316	02, C5305, C5309, C5313 <u>S</u>	CKSSYF104Z16 CKSSYF104Z16
D	[MODULE UCOM B SEMICONDUCTO				R5317, R53 Other Resist		RAB4C101J RS1/16SS###J
	IC5206 IC5201 IC5205 IC5208 IC5214, IC5215		BR24L04FJ-W M30622F8PGP-K PST3628UR SN74AHC08PW SN74AHC32PW			UG 15-P STAL OSCILLATOR STAL OSCILLATOR	AKM1232 ASS1174 ASS1182
•	IC5211, IC5212 IC5209 Q5201		SN74AHC541PW TC7W126FU 2SJ461A		[IC4 BLOCK SEMICOND IC5401	-	PEG054A-K
E	Q5202 D5217		DTC143EUA 1SS355		D5401 D5402		SML-310LT SML-310MT
-	D5207-D5212 D5201		DAN202U SML-310LT		COILS AND F5401, F540	D FILTERS 03, F5409, F5410	ATF1213
	SWITCHES S5201		ASH1047		CAPACITO C5401, C54 C5424 (100/	13, C5417 (100/6.3V)	ACH1396 ACH1396
	CAPACITORS C5213, C5225 C5205 C5206, C5223, C523	s1, C5245-C5262	ACH1357 CKSRYB472K50 CKSSYB102K50		C5434, C54 C5402-C54 C5418-C542	35 [^] 12, C5414-C5416 23, C5425-C5431	CKSSYB102K50 CKSSYF104Z16 CKSSYF104Z16
F	C5264 C5263 C5202-C5204, C520	,	CKSSYB102K50 CKSSYB104K10 CKSSYF104Z16		RESISTOR: R5406, R54 R5408-R541 R5422		RAB4C101J RAB4C220J RAB4C220J
	C5210-C5212, C5218 C5226, C5227, C524		CKSSYF104Z16 CKSSYF104Z16		R5405		RS1/16S5601F
=	1	-	PDi	P-504CM)	3	-	4 -

Part No. RS1/16SS0R0J RS1/16SS101J RS1/16SS103J RS1/16SS122J RS1/16SS220J RS1/16S###J	Mark No. Description CAPACITORS C5049, C5080 C5045 C5010 C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	Part No. CEHAT101M16 CEHAT220M50 CEHAT221M10 CEHAT222M16 CEHAT2R2M50 CEHAT330M25 CEHAT470M16	A
RS1/16SS101J RS1/16SS103J RS1/16SS122J RS1/16SS220J RS1/16S###J	C5049, C5080 C5045 C5010 C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	CEHAT220M50 CEHAT221M10 CEHAT222M16 CEHAT2R2M50 CEHAT330M25	ļ
RS1/16SS103J RS1/16SS122J RS1/16SS220J RS1/16S###J	C5049, C5080 C5045 C5010 C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	CEHAT220M50 CEHAT221M10 CEHAT222M16 CEHAT2R2M50 CEHAT330M25	ļ
RS1/16SS103J RS1/16SS122J RS1/16SS220J RS1/16S###J	C5010 C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	CEHAT221M10 CEHAT222M16 CEHAT2R2M50 CEHAT330M25	ļ
RS1/16SS122J RS1/16SS220J RS1/16S###J	C5010 C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	CEHAT221M10 CEHAT222M16 CEHAT2R2M50 CEHAT330M25	,
RS1/16SS220J RS1/16S###J	C5022 C5047, C5048, C5081 C5050 C5005-C5008, C5016 C5051	CEHAT2R2M50 CEHAT330M25	
RS1/16S###J	C5050 C5005-C5008, C5016 C5051	CEHAT2R2M50 CEHAT330M25	
	C5050 C5005-C5008, C5016 C5051	CEHAT330M25	
RS1/16SS###J	C5005-C5008, C5016 C5051		
RS1/16SS###J	C5051	CEHATA70M16	
RS1/16SS###J	C5051	OLI IAI 47 UNI IO	
RS1/16SS###J	05040 05000	CEHATR47M50	r
RS1/16SS###J	C5019, C5020	CEHAZL471M25	
	C5002, C5004, C5017, C5027	CKSRYB103K50	
	C5055-C5058	CKSRYB104K25	
AKM1201	C5043, C5044	CKSRYB222K50	
	RESISTORS		1
ARWIZIO		RD1/4MLIF2R2.I	
BA90BC0FP	nouus, nouu4, nouu7, nouu6	1131/1030001F	
MM1665AT	Other Resisters	DC1/16C###!	
HN1C01FU	Other nesistors	⊓31/103###J	
DAN202U	OTHERS		
HZU2R2(B)			
	, ,	KM200NA6	
UDZS5R1(B)	5001 SCREW	VBB30P100FNI	
	KN5001, KN5002	VNF1084	
	WRAPPING TERMINAL		
ACH1394			
	COMM SLOT ASSY		
0.10011101210		CD2020ECV	
DC1/1600101	*		
	104903, 104900	10/4VHC125F1	
	CADACITODO		
HS1/16S###J	C9455	CEJQ470M6R3	
	C9452, C9469-C9472	CKSRYB471K50	ı
	C9451, C9453, C9454, C9456-C9458	CKSSYF104Z16	
AKM1278	C9462, C9467, C9468	CKSSYF104Z16	
AKM1282	RESISTORS		
		RS1/16S###.I	
	3.1.3. 1 tooloto10	. 10 1, 100111110	
	OTHERS		
		ABA1210	
DA 45555 : '-	,		
LA4625	•		
PQ12DZ11	3334 PHOTECT SHEET 92	AIVIH3396	
SI-8120S		****	
2SA1586		ANG2611	l
	3526 HEXAGON HEADED SCREW	BBA1051	
2SC4116	9451 SCREW TERMINAL	VNE1949	
2SD2114K			
DTA124EUA			
1SS301			
1SS302	VIDEO SLOT I/F ASSY	i	
1SS355		041 0045	
RK46			
=			
	D8951, D8952	UDZS5.6B	
ΛT∐1150			
AIII 139	COILS AND FILTERS		ı
	L8951	ATX1008	
	MM1665AT HN1C01FU DAN202U HZU2R2(B) UDZS5R1(B) ACH1394 ACH1394 CKSRYB103K50 CKSSYF104Z16 RS1/16SS101J RS1/16SS102J RS1/16SS223J RS1/16S###J AKM1278 AKM1278 AKM1282 BA4558F-HT LA4625 PQ12DZ11 SI-8120S 2SA1586 2SC4116 2SD2114K DTA124EUA 1SS301 1SS302 1SS355	RESISTORS	RESISTORS

PDP-504CMX/1

1		2		3	-	4
Mark No.	Description	Part No.		Mark No.	Description	Part No.
CAPACITORS				LED OP	T ASSY	
C8952		CEHAT470M16		SEMICONDUC	TORS	
C8953		CKSSYF104Z16		Q9652		DTC143EUA
RESISTORS				Q9051 Q9651		HN1B04FU RN2901
Other Resistors		RS1/16S###J		D9051		S9561
OTHERO				D9652		SML-310MT
OTHERS CN8953 SOKET	120-P	AKP1219		D9651		SML-311UT
CN8954 PCISOI		AKP1251		20001		OWL OTTO
CN8955 SOKET		AKP1253		CAPACITORS		
KN8951, KN8952 CN8952 L-PLUG	2 GROUND PLATE	ANK1664 KM200NA11L		C9652-C9655 C9054		CCSRCH101J50
0110002 21 200	2(111)	140,2001071112		C9052, C9055, (C9056	CKSRYB103K50 CKSRYB105K10
				C9051, C9053, 0		CKSSYF104Z16
SPTERM	IINAL L ASSY	•		RESISTORS		
SEMICONDUC				Other Resistors		RS1/16S###J
IC9752	10110	MM1522XU				
IC9751		MM3012XN				
COILS AND FI	ITERS			COMM S	SLOT IF ASSY	
L9701, L9702	LILIIO	ATF1206		SEMICONDUC		
				IC8901		TC74VHC00FT
CAPACITORS		0000011404 150		Q8902		2SC4116
C9703, C9704 C9706, C9708-C	9711	CCSRCH101J50 CCSRCH221J50		COILS AND FI	ITERS	
C9753, C9756	0711	CEAT470M16		L8901	LILITO	LCTAW221J3225
C9754		CKSRYB103K50				
C9752, C9755		CKSRYB105K10		CAPACITORS		01/00/07/04/04/05
C9705		CKSRYB332K50		C8902 C8901		CKSRYB104K25 CKSSYF104Z16
C9707 C9751, C9757		CKSRYF473Z50 CKSSYF104Z16				0.1001.101.210
C9751, C9757		CK331F104Z10		RESISTORS		
RESISTORS				Other Resistors		RS1/16S###J
R9703, R9704		RD1/2MMF100J		OTHERS		
R9757, R9760 Other Resistors		RS1/16S1001F RS1/16S###J		CN8904 EDGE		AKP1252
				CN8902 L-PLU CN8903 L-PLU		KM200NA10L KM200NA11L
<u>OTHERS</u>				CN8905 L-PLU		KM200NA6L
CN9701 SPEAK CN9702 PLUG(6	ER TERMINAL 2-P SP)	AKE1041 KM200NA6			, ,	
	,					
				KEY CO	NTROL ASSY	
SPTERM	MINAL R ASSY	/		SEMICONDUC	TORS	
COILS AND FI				IC9001		PD5719A
L9801, L9802		ATF1206		Q9001 D9001-D9003, E	9005-D9008	2SC4116 1SS302
CADACITODO				D9004		1SS355
CAPACITORS C9804, C9805		CCSRCH101J50		OOU O AND E	LTEDO	
C9801, C9808-C	9811	CCSRCH221J50		COILS AND FI	LIERS	DTL1069
C9806		CKSRYB332K50		1 9001-1 9000		DILIOOS
C9807		CKSRYF473Z50		CAPACITORS		
RESISTORS				C9006-C9008		CCSRCH101J50
R9803, R9804		RD1/2MMF100J		C9005 C9001-C9003		CEAT470M16 CKSRYB472K50
Other Resistors		RS1/16S###J		C9004		CKSSYF104Z16
OTHERS				RESISTORS		
	ER TERMINAL 2-P	AKE1041		R9008		RAB4C182J
				Other Resistors		RS1/16S###J
				OTHERS		
AV I/O IF	ASSY			CN9002 8P CO	NNECTER	AKM1207
OTHERS				X9001 CERALO	OCK	ASS1162
CN2101 PCISOI	KET120-P	AKP1220		CN9001 L-PLU	G(3P)	KM200NA3L
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•	5	6				
Mark No.	Description	Part No.				
IR RECEIVE ASSY						

Q4901 2SC4116 D4902 1SS302 D4901 1SS355

CAPACITORS

SEMICONDUCTORS

C4905 CCSRCH101J50
C4901 CEAT470M16
C4903 CKSRYB102K50
C4907 CKSRYB103K50
C4902, C4904 CKSSYF104Z16

RESISTORS

Other Resistors RS1/16S###J

COVER ASSY

This assembly has no service parts.

POWER SUPPLY UNIT

This assembly has no service parts.

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6. ADJUSTMENT



- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
 - 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
 - 3. Use a stable AC power supply.

6.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ When any of the following assemblies is replaced

	when any of the following asse	embile	es is replaced
В	POWER SUPPLY Unit	\rightarrow	No adjustment required
	DIGITAL VIDEO Assy	→	Refer to the "7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT."
	50 (43) X DRIVE Assy	\Rightarrow	No adjustment required
	50 (43) Y DRIVE Assy	=	No adjustment required
	AV I/O Assy	=	No adjustment required
С	RGB Assy	-	No adjustment required
	VIDEO SLOT Assy	=	No adjustment required
	Other assemblies		No adjustment required
•	Service Panel	→	Refer to the "6.6 METHOD FOR REPLACING THE SERVICE PANEL ASSY."
D	■ When any part in the following	asseı	mblies is replaced

POWER SUPPLY Unit	\rightarrow	The assembly must be replaced as a unit, and no part replacement is allowed.
DIGITAL VIDEO Assy	=	No adjustment required
50 (43) X DRIVE Assy (IC1101, IC1202)	-	Refer to the "6.2 DRIVE ASSY ADJUSTMENT."
50 (43) Y DRIVE Assy (IC2201, IC2202)	-	Refer to the "6.2 DRIVE ASSY ADJUSTMENT."
AV I/O Assy	→	Replacement and repair of IC7610 and IC8705 are impossible.
RGB Assy	→	Replacement and repair of IC6001, IC6401, IC6403, IC6601, IC6602 and IC7205 are impossible.
VIDEO SLOT Assy	→	Replacement and repair of IC6107, IC6255, IC6257 and IC7902 are impossible.
Other assemblies	\rightarrow	No adjustment required

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6.2 DRIVE ASSY ADJUSTMENT

■ How to readjust the timing of the control signals when the DRIVE Assy TND506MD is to be replaced

As there is a large difference in delay time among the individual TND506MDs, timing adjustment has been made on each TND506MD in the unit process. If the TND506MD is replaced on the X or Y Drive Assy, readjustment of the timing of the control signals is required.

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Assy	Replaced IC	Signal for which Readjustment is Required
V DDIVE	IC1101	XSUS-U2 & XSUS-D2
X DRIVE	IC1102	XSUS-U1 & XSUS-D1
Y DRIVE	IC2201	YSUS-U1 & YSUS-D1
	IC2202	YSUS-U2 & YSUS-D2

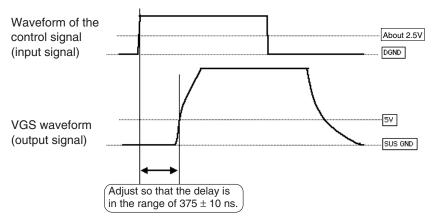
How to adjust

Adjust the timing between the startup of the control signals of SUS-U1, SUS-D1, SUS-U2, and SUS-D2 and the startup of the voltage between the gate and the source of the output FET, with the VR resistors that are inserted in the signal line in series. When adjusting, set the unit to Drive OFF mode, and Vsus to 0 V. (For details on how to set to Drive OFF mode, see "7.1.5 Power on/off function for the large-signal system".)

Specified values for adjustment and adjustment points

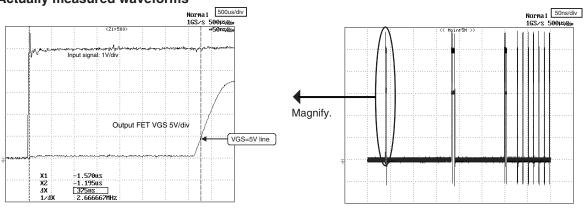
		X DRIVE			Y DRIVE		
Signal Name	Set Value for Delay Time	Input Signal	Output Signal	Adjustment VR	Input Signal	Output Signal	Adjustment VR
SUS-U1	$375 \text{ns} \pm 10 \text{ns}$	K1005	Q1108	VR1103	K2025	Q2202	VR2201
SUS-D1	$375 \text{ns} \pm 10 \text{ns}$	K1009	Q1112	VR1104	K2027	Q2205	VR2202
SUS-U2	$375 \text{ns} \pm 10 \text{ns}$	K1008	Q1103	VR1101	K2022	Q2208	VR2203
SUS-D2	$375 \text{ns} \pm 10 \text{ns}$	K1006	Q1105	VR1102	K2024	Q2212	VR2204

Note: Connect GND of the probe with DGND (DGND: X Drive Assy: K1020, Y Drive Assy: K2010) for input signal. For outputting a signal, obtain a signal from the FET gate terminal. For adjustment, magnify any pulse in the waveform.



Actually measured waveforms

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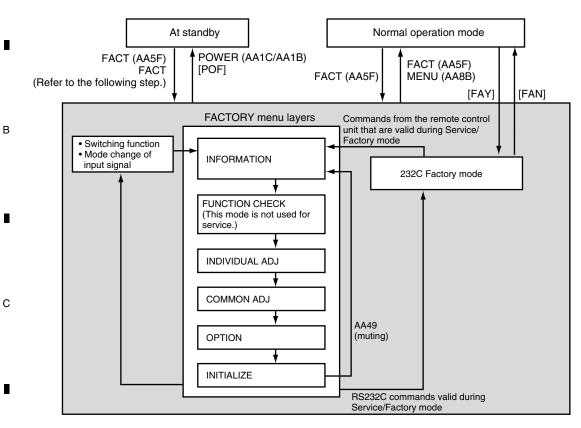
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6.3 SERVICE FACTORY MODE

Commands in Service/Factory mode must be issued using the remote control unit supplied with the Plasma Display.

■ State Transition Diagram

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6.4 HOW TO ENTER FACTORY MODE

For adjustments, it is necessary to enter Service/Factory mode. There are two ways to enter Service/Factory mode: by using the remote control unit, or by using RS232C commands from your PC.

When the unit is in Standby (STB) Mode

• Please refer to the technical document (Service Knowhow) same as previous model (G4 model)

When the power is on

No.	Method	Procedures
1	Remote control unit	When the conventional Service/Factory code (AA5F) is sent, the unit will enter Service/Factory mode.
2	PC	Connect your PC via its RS232C port, and send the FAY command.

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■ Operation when Service/Factory mode is entered

Functions whose settings are set to OFF

The settings of the following functions are set to OFF when Service/Factory mode is entered (including when this mode is entered by receiving the FAY command):

- SPLIT (The display will become that of the main input.)
- STILL

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- MASK CONTROL
- ORBITER
- POINT ZOOM

User's setting data

User setting data are set as follows:

- Although user's adjustment data for video/audio adjustment and various adjustment are stored in memory, they are not reflected on the display.
- Although user's adjustment data for display are stored in memory, display adjustment data are reset to the default settings.
- Screen size and sound volume reflect user settings.
- The COLOR DECODING and SIGNAL FORMAT settings are reset to the default values.

Setting data for Integrator mode

Setting data for Integrator mode will change as follows:

- Although video/audio adjustment data and various data for Integrator mode are stored in memory, they are not reflected on the display.
- Although adjustment data for display in Integrator mode are stored in memory, display adjustment data are reset to the default settings.

■ Functions of the keys on the remote control unit in Service/Factory mode

SR Function	Main Function	Description
MUTING	Switching main items	For shifting to the next (top) main item
▼ (DOWN)	Switching subitems	For shifting to the next (downward) subitem
▲ (UP)	Switching subitems	For shifting to the previous (upward) subitem
◄ (LEFT)	Increasing adjustment value	For increasing adjustment value
► (RIGHT)	Decreasing adjustment value	For decreasing adjustment value
SET	Shifting layers	For shifting to lower or upper layer
INPUT *	Switching inputs	For switching the input to *
STANDBY/ON	POWER OFF	For turning off the power
FACTORY	Service/Factory OFF	For setting Service/Factory mode to OFF
MENU	Service/Factory OFF	For setting Service/Factory mode to OFF
POINT ZOOM	Matrix change	RGB →YCBR (Component1) → YPBR (Component2)
SPLIT	Main screen/Sub screen change	MAIN→ SUB

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■ Main-item indications

Four parameters are displayed:

Input function
When there is not a video card

Input Functions
IN1, IN2
IN1, IN2
IN1, IN2
IN1, IN2
IN1, IN2
IN1, IN1
IN1 to IN5
IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

IN1 to IN5

Digital video signal

When there is a video card

RGB

Olor system and signal type
When there is not a video card
Color System and Signal Type

Color System a	On-Screen Display			
NTSC		NTV/NTS		
PAL		PLV/PLS		
SECAM	Composite input/	SCV/SCS		
4.43NTSC	S-connector input	4NV/4NS		
PAL M		PMV/PMS		
PAL N		PNV/PNS		
BLACK/WHITE		BWV/BWS		
Y / Cb / Cr		CBR		
Y / Pb / Pr		PBR		
RGB		RGB		
Digital video signal		DIG		

4 Option (Destination, etc.)

Options	On-Screen Display	
CMX/MXE	4MX	

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On-Screen Display

RGB

DIG

PDP-504CMX/1

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SIG-Mode Table

The signal mode is displayed in three characters:

First character: Resolution of the input signal (numerics for the video signals, and alphabetics for the PC signals)

Second character: Grouping of the vertical frequencies

2nd Character	Reference Vertical Frequency	Area	Remarks
_	_	- 20.0	No signal
В		20.0 to 28.0	
С		28.0 to 45.0	
1	50	45.0 to 54.5	
2	56	54.5 to 58.2	
3	60	58.2 to 63.0	
4	66	63.0 to 68.0	
5	70	68.0 to 73.4	
6	For interpolation of 72-Hz	73.4 to 73.9	For distinguishing between 70-Hz or 75-Hz area
7	75	73.9 to 80.0	
8	85	80.0 to 88.5	
?	-	91.5 –	Out of range

Third character: Selection of the screen size by the user is displayed.

(O: available, ×: not available)

3rd Character	Description on GUI	VIDEO	PC
0	DOT BY DOT	×	0
1	4:3	0	0
2	FULL (FULL1080i)	0	0
3	ZOOM	0	×
4	WIDE	0	×
6	CINEMA	0	×
8	FULL (FULL1035i)	0	×
9 *	UNDERSCAN	0	×
:	PARTIAL	×	0

* This is displayed only when UNDERSCAN has been set before Service/Factory mode is entered. In Service/Factory mode, changing from other screen sizes to UNDERSCAN cannot be performed.

SIG-Mode Table

SIG-Mode table for video signals

SIG-Mode	Signal Type	Vertical Freq. fv (Hz)	Horizontal Freq. fh (kHz)	Dot Clock (MHz)	Remarks
13*	SDTV • 525i	60.000	15.734	13.5	
21*	SDTV • 625i	50.000	15.625	13.5	
33*	SDTV • 525p	60.000	31.469	27.000	
41*	HDTV • 1125i	50.000	28.125	74.250	
43*		60.000	33.750	74.250	
51*	SDTV • 625p	50.000	31.250	27.000	
61*	HDTV • 750p	50.000	37.500	74.250	
63*		60.000	45.000	74.250	
7B*	HDTV • 1125p	25.000	28.125	74.250	Use as OUT OF RANGE
7C*		30.000	33.750	74.250	Use as OUT OF RANGE
71*		50.000	56.250	148.500	
73*		60.000	67.500	148.500	
81*	HDTV • 1250p	50.000	62.500	148.500	
91*	288p	50.000	15.625	27.0/54.0	Use as OUT OF RANGE
93*	288p	60.000	15.750	27.0/54.0	Use as OUT OF RANGE

*: Represents the current screen-size selected.

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SIG-Mode table for PC signals

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IG-Mode	Signal Type	Vertical Freq. fv (Hz)	Horizontal Freq. fh (kHz)	Dot Clock (MHz)	Remarks
A2*	640 × 400	56.422	24.825	21.052	Former 720 × 400
A5*	720 × 400	70.087	31.469	28.322	Former 640 × 400
A8*	720 × 400	85.050	37.861	35.438	New
B1*	640 × 480	49.673	24.688	19.750	640 × 480 For rescan (48/50Hz)
B3*		59.940	31.469	25.175	
B4*		66.666	35.000	30.240	
B6*		72.809	37.861	31.500	
B7*		75.000	37.500	31.500	
B8*		85.000	43.300	36.000	
C1*	848 × 480	49.540	24.621	26.000	848 × 480 For rescan (48/50Hz)
C3*		60.000	31.020	33.750	
D2*	800 × 600	56.250	35.158	36.000	
D3*		60.317	37.879	40.000	
D6*]	72.188	48.077	50.000	
D7*		75.000	46.875	49.500	
D8*		85.061	53.674	56.250	
E7*	832 × 624	74.550	49.725	57.283	
F1*	1024 × 768	48.003	38.690	52.000	1024 × 768 For rescan (48/50Hz
F3*		60.004	48.363	65.000	
F5*		70.069	56.476	75.000	
F7*		75.029	60.023	78.750	
F8*		84.997	68.677	94.500	
G1*	1280 × 768	48.014	38.507	65.000	1280 × 768 For rescan (48/50Hz
G2*		56.250	45.113	76.150	
G3*		59.870	47.776	79.500	
G5*		69.843	56.014	95.000	
H3*	1152 × 864	60.000	53.700	79.369	
H6*		72.000	64.900	99.686	
H7*		75.000	67.500	108.000	
17*	1152 × 870	75.061	68.681	100.300	
J4*	1152 × 900	65.950	61.800	92.940	
J7*		76.050	71.710	105.561	
K3*	1280 × 960	60.000	60.000	108.000	
L3*	1280 × 1024	60.020	63.981	108.000	
L7*		75.025	79.976	135.000	
L8*		85.024	91.146	157.500	
M3*	1400 × 1050	59.978	65.317	121.750	
M7*	1400 × 1050	74.867	82.278	156.000	
M8*	1400 × 1050	84.960	93.881	(179.500)	
N3*	1600 × 1200	60.000	75.000	162.000	
N4*]	65.000	81.250	153.563	
N5*	<u></u>	70.000	87.500	153.563	
N7*		75.000	93.750	151.875	
N8*		85.000	106.250	157.781	
O3*	1280 × 720	59.943	44.718	74.410	-1

^{* :} Represents the current screen-size selected.

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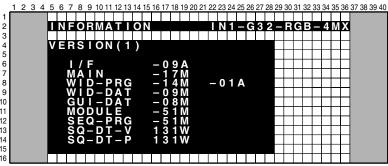
INFORMATION mode

Select the main item "INFORMATION" using the MUTE key then select the subitems shown in the table below using the ▲ or ▼ key.

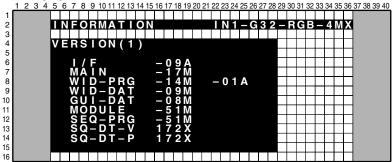
Operation items

No.	Function / Display	Content	232C Command
1	VERSION (1)	The flash memory versions for each device are displayed (1)	GS1
2	VERSION (2)	The type of video card inserted in the slot is displayed:	
3	SERIAL	For displaying the serial number of the product	GNP/ GST
4	PANEL PD	Power-down and its time of occurrence are displayed. The values can be cleared.	GPD
5	PANEL SD	Shutdown and its time of occurrence are displayed. The values can be cleared.	GNG
6	TEMPERATURE	Information on temperature is displayed.	GS2/GST
7	HOUR METER	Cumulative power-on time is displayed. The value can be cleared.	GS2
8	PULSE METER	The pulse meter values at each block are displayed. The values can be cleared.	GPM
9	P ON COUNTER	The number of times the power was turned on is displayed. The value can be cleared.	GPC
10	BACKUP EEPROM	The status of the backup data for the module microcomputer is displayed and updated.	GS2

1. VERSION (1) • PDP-504CMX



• PDP-434CMX



The flash memory versions for each device are displayed.

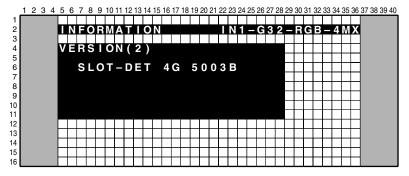
On-Screen Display	Flash memory of Device
I/F	User IF microcomputer
MAIN	Main microcomputer
WID-PRG	Program for IC3, Boot program for IC3
WID-DAT	Extension Engin data for IC3
GUI-PRG	GUI data for IC3
MODULE	Module microcomputer
SEQ-PRG	Program for IC4
SQ-DT-V	Sequence data for IC4 (for VIDEO)
SQ-DT-P	Sequence data for IC4 (for PC)

Note: If the versions for MODULE and SEQ-PRG are -5*M, refer to this manual and PDP-504CMX: ORDER NO. ARP3242 for servicing. If it is -0*M, refer to PDP-504CMX: (ORDER NO. ARP3191, ARP3192), PDP-434CMX: (ORDER NO. ARP3198, ARP3199) for servicing.

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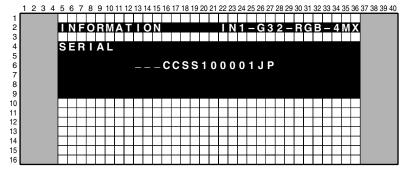
2. VERSION (2)



The type of video card inserted in the slot is displayed:

Device	Name Indication	Type of video card	Remarks	
SLOT-DET	SLOT-DET	(No indication)	No card inserted	
		4G 5003B When the Pioneer PDA-5003 Standard Video Card is inserted.		
		4G 5004R	When the Pioneer PDA-5004 Standard Video Card is inserted.	
		3G TYPE *	When a PDP-503CMX-based OEM video card is inserted * = A to H	
		4G TYPE *	When a PDP-504CMX-based OEM video card is inserted * = A to J	

3. SERIAL



The serial number of the product is displayed.

Note: If the 8th digit from the left in the serial number (_ _ CCSS100001JP) is 1, refer to this manual and PDP-504CMX: ORDER NO. ARP3242 for servicing. If it is 0, refer to PDP-504CMX: (ORDER NO. ARP3191, ARP3192), PDP-434CMX: (ORDER NO. ARP3198, ARP3199) for servicing.

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4. PANEL PD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION INI-G3 2 - RGB - 4 MX

PANEL PD
FIRST SECOND

1 X-DRV POWER 00 5 2 3 H 5 1 M
2 Y-SUS Y-DCDC 00 2 7 5 H 4 2 M
3 SCAN ---- 00 0 9 0 H 5 0 M
4 Y-DCDC POWER 00 0 4 3 H 0 3 M
5 SCN-5 V POWER 00 0 0 2 H 3 1 M
10 A Y-DCDC POWER 00 0 0 2 H 3 1 M
11 5 SCN-5 V POWER 00 0 0 2 H 3 1 M
12 6 ADRS ---- 00 0 0 0 0 H 0 7 M
13 7
8 H M
14 M
15 H

The log of the past eight power-downs is displayed. Power-down points (first and second) and the hour meter value when the power-down was generated are displayed, with the latest power-down data at the top.

The meanings of indications for power-down points are shown in the table below.

3

• Power-down information

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Type of Power-down	On-Screen Display	Type of Power-down	On-Screen Display
No corresponding item		Power-down of the Y-SUS system	Y-SUS
Power-down of the main power supply system	POWER	Power-down of the address system	ADRS
Power-down of the scanning system	SCAN	Power-down of the X-DRIVE circuitry	X-DRV
Power-down in the path between the scanning system and 5-V power supply	SCN-5V	Power-down of the X-DC/DC converter	X-DCDC
Power-down of the Y-Drive system	Y-DRV	Power-down of the X-SUS system	X-SUS
Power-down of the Y-DC/DC converter	Y-DCDC	Power-down of the driving IC power supply system	D-DCDC
PD which cannot be specified	UNKNOWN	Drive stop PD	

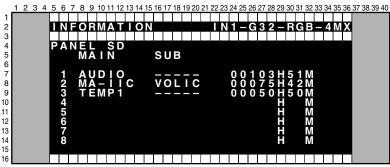
^{*1:} If an activated protection circuit could not be identified after the power-down, it is treated as an unidentifiable power-down (UNKNOWN).

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5. PANEL SD

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The log of the past eight shutdowns is displayed. Shutdown points and the hour meter value when the shutdown was generated are displayed, with the latest shutdown data at the top.

The meanings of indications for shutdown points are shown in the table below.

• Panel shutdown information

No.	Type of Shutdown	On-Screen Display (MAIN)	Subcategory
1	Abnormality in IC4 communication	IC4	
2	Abnormality in module microcomputer IIC communication	MD-IIC	Exists.
3	DIGITAL-DCDC power decrease	RST2	
4	Abnormality in panel temperature	TEMP1	
5	Short-circuiting of the speakers	AUDIO	
6	Abnormality in module microcomputer communication	MODULE	
7	Abnormality in three-wire serial communication of the main microcomputer	MA-SRL	Exists.
8	Abnormality in main microcomputer IIC communication	MA-IIC	Exists.
9	Abnormality in main microcomputer communication	MAIN	
10	FAN stopped	FAN	
11	Abnormality in unit temperature	TEMP	Exists.
12	Abnormality in the ASIC power on the main microcomputer side	M-DCDC	
13	Other failures	ETC	Exists.

Subcategory information

No.	Type of Shutdown	Subcategory	
2	MD-IIC	EEPROM4K, EROM2K	
7	MA-SRL	IF microcomputer, IC2, IC3	
8	MA-IIC	MA-EEP, IC1-V, IC1-Y, AD-M, AD-S, SL-EEP, IC6/1, IC6/2, VOLIC	
11	TEMP	INSIDE/AIR (INSIDE = TEMP2/AIR = TEMP3)	
13	ETC	RLS, VCC-D1, VCC-D2	

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6. TEMPERATURE

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 INFORMATION IN1— EMPERATURE FAN 125

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Data from each temperature sensor and the fan output value are displayed:

 Temperature sensors [°C]
 PANEL: Sensor temperature of a panel part (Reference value) INSIDE: Temperature inside the unit (Reference value)

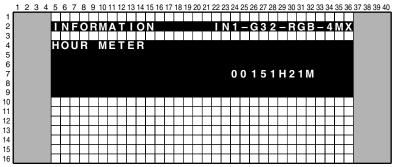
AIR: Ambient temperature around the unit (Reference value)

• Fan output: Fan output data

To update the temperature values or fan output data, use the [◄] or [▶] key.

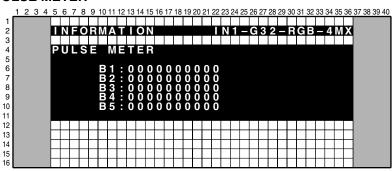
7. HOUR METER

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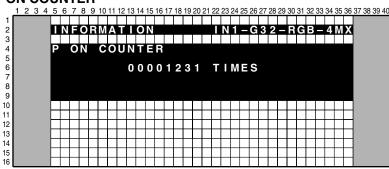
The cumulative power-on time is displayed.

8. PULSE METER



The cumulative number of pulses is displayed.

9. P ON COUNTER



The cumulative number of times the unit was turned on is displayed.

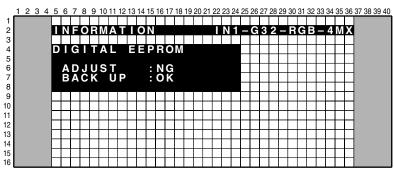
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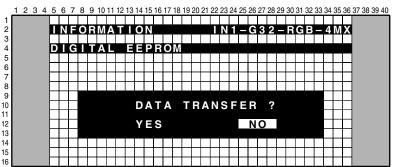
10. BACKUP EEPROM

When the DIGITAL VIDEO Assy is to be replaced, the adjustment values in it are temporarily stored in the backup ROM then are written on the new Assy after replacement. (Refer to the "7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT".)

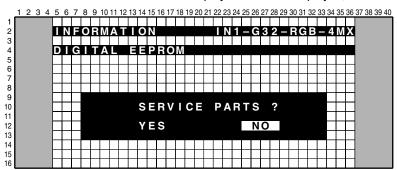
① Check if adjustment has been made on the DIGITAL VIDEO Assy or not (i.e., in the state of a new service part), and if the data on any adjustment values are retained in the backup ROM or not.



- ADJUST: OK (DIGITAL VIDEO Assy adjusted)
 NG (DIGITAL VIDEO Assy not adjusted)
- BACKUP: OK (Adjustment data retained in the backup ROM)
 NG (Adjustment data not retained in the backup ROM)
- ② Downloading the data for the DIGITAL VIDEO Assy from the backup ROM
 - Press the SET key while display ① above is displayed, and the following display will appear.



- Move the cursor to YES and press the SET key.
 The data in the backup ROM are copy to the DIGITAL VIDEO Assy.
 (When a new DIGITAL VIDEO Assy has been mounted, it now has the adjustment data suited for the panel.)
- Move the cursor to NO, and press the SET key.
 Copy of the data to the DIGITAL VIDEO Assy will not be executed.
- 3 Clearing the data in the ROM of the DIGITAL VIDEO Assy
 - When YES or NO is selected while display ② above is displayed, the following display will appear.



- Move the cursor to YES and press the SET key.
- The data in the ROM of the DIGITAL VIDEO Assy are cleared, and the Assy has no specific adjustment data.
- Move the cursor to NO and press the SET key. The data in the ROM of the DIGITAL VIDEO Assy are not cleared. When YES selected on display ② and the data were copy, select NO on this display.

Note: When YES or NO is selected on display $\ensuremath{\mathfrak{I}}$ above, the display returns to that of $\ensuremath{\mathfrak{I}}$ above.

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Adjustment of corresponding route unevenness

Basically, only replacement of service parts is required, and adjustment is not required.

No.	Command	Adjustment Parameter Name in Factory	Function	
1	VSG	CVY GAIN	IC1 MAIN GAIN adjustment (switching routes with the SWM [main] and SWS [sub] commands)	
2	VSO	CVY OFFSET	IC1 MAIN OFFSET adjustment (switching routes with the SWM [main] and SWS [sub] commands)	
3	RYG	RY GAIN	AD R GAIN adjustment (correction in differences between component- and RGB-system signals)	
4	GYG	GY GAIN	AD G GAIN adjustment (correction in differences between component- and RGB-system signals)	
5	BYG	BY GAIN	AD B GAIN adjustment (correction in differences between component- and RGB-system signals)	
6	ADC	AD MAIN GAIN	AD MAIN RGB GAIN adjustment (for main screen)	
7	MRG	AD MAIN RY GAIN	AD MAIN RY GAIN adjustment (for main screen)	
8	MGG	AD MAIN GY GAIN	AD MAIN GY GAIN adjustment (for main screen)	
9	MBG	AD MAIN BY GAIN	AD MAIN BY GAIN adjustment (for main screen)	
10	MRO	AD MAIN RY OFS	AD MAIN RY OFFSET adjustment (for main screen)	
11	MGO	AD MAIN GY OFS	AD MAIN GY OFFSET adjustment (for main screen)	
12	МВО	AD MAIN BY OFS	AD MAIN BY OFFSET adjustment (for main screen)	
13	SRG	AD SUB RY GAIN	AD SUB RY GAIN adjustment (for sub screen)	
14	SGG	AD SUB GY GAIN	AD SUB GY GAIN adjustment (for sub screen)	
15	SBG	AD SUB BY GAIN	AD SUB BY GAIN adjustment (for sub screen)	
16	SRO	AD SUB RY OFS	AD SUB RY OFFSET adjustment (for sub screen)	
17	SGO	AD SUB GY OFS	AD SUB GY OFFSET adjustment (for sub screen)	
18	SBO	AD SUB BY OFS	AD SUB BY OFFSET adjustment (for sub screen)	

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PDP-504CMX/1

Reference: Commands for adjustment of differences in signals and memory cells used for storing adjustment values

• Basically no adjustment is required for the Service Assy, as it is properly adjusted before shipment.

Adjustment values to be stored in the EEPROM of the AV I/O (INDIVIDUAL mode)

Adjustment values differ depending on the input function, input signal format, and main/sub screen.

Innut and	Commands for Adjustment			
Input and Signal Format	Route for the Main Screen	Route for the Sub Screen		
INPUT1 (RGB)	RYG GYG BYG	RYG GYG BYG		
INPUT1 (Color difference)	RYG GYG BYG	RYG GYG BYG		

- Four adjustment tables are provided here, depending on the input function, input signal format, and main/sub screen.
- No adjustment is required for INPUT 2, which is of DVI (digital video interface) standards.

Adjustment values to be stored in the EEPROM of the PDA-5003 or PDA-5004

Adjustment values differ depending on the input function and main/sub screen.

Innut and	Commands for Adjustment		
Input and Signal Format	Route for the Main Screen	Route for the Sub Screen	
INPUT3 (Y/C)	VSG VSO	RYG GYG BYG	
INPUT4 (Comp. V)	VSG VSO	RYG GYG BYG	
INPUT5 (Y/C)	RYG GYG BYG	RYG GYG BYG	
INPUT5 (Color difference)	RYG GYG BYG	RYG GYG BYG	

• Eight adjustment tables are provided here, depending on the input function and main/sub screen.

Adjustment values to be stored in the EEPROM of the RGB (COMMON mode)

Adjustment values differ depending on the signal resolution, input signal format, and main/sub screen.

Note: No adjustment is required for DVI input or signals converted to digital signals by IC1.

[Main adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB mode)

Input and Signal Format	Commands for Adjustment		Conditions for the Tables to be Switched
525i (RGB)	MRG MGG MBG	MRO MGO MBO	Video RGB signals (excl. 1125p signals)
525i (Color difference)	MRG MGG MBG	MRO MGO MBO	Video color-difference signals (excl. 1125p signals)
1080p (RGB)	MRG MGG MBG	MRO MGO MBO	All PC signals and 1125p RGB signals
1080p (Color difference)	MRG MGG MBG	MRO MGO MBO	1125p color-difference signals

- For adjustment according to the above tables, input corresponding signals to INPUT 5 to change the RGB/color-difference signal setting then perform adjustment.
- Four adjustment tables are provided here, depending on the signal resolution, input signal format, and main/sub screen.

[Sub adjustment 1]

Main A/D adjustments for R, G, and B individually (COMMON-RGB 1 mode)

Input and Signal Format	Commands for Adjustment		Conditions for the Tables to be Switched
RGB	SRG SGG SBG	SRO SGO SBO	All R, G, and B signals
Color difference	SRG SGG SBG	SRO SGO SBO	All color-difference signals

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for sub input and to change the RGB/color-difference signal setting then perform adjustment.
- Two adjustment tables are provided here, depending on the signal format.

[Main adjustment 2]

Main A/D adjustments for all R, G, and B simultaneously (COMMON-RGB 2 mode)

Input and Signal Format	Commands for Adjustment	Conditions for the Tables to be Switched
RGB	ADC	All R, G, and B signals
Color difference	ADC	All color-difference signals

- For adjustment according to the above tables, input video signals to INPUT 5 to switch to the route for main input and to change the RGB/color-difference signal setting then perform adjustment.
- A contrast gain commits this adjustment command simultaneously three colors.
- Two adjustment tables are provided here, depending on the signal format.

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PDP-504CMX/1

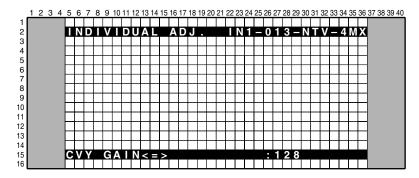
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INDIVIDUAL ADJ. mode

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Each time the ▲ or ▼ key is pressed, the individual adjustment items are changed, as follows:

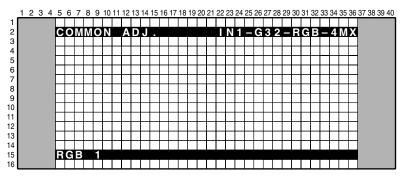
No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range	Remarks
1	VSG	CVY GAIN<=> : ***	MICHAEL (IC6255) input GAIN adj.		Select a route with the command
2	VSO	CVY OFFSET<=> : ***	MICHAEL (IC6255) input OFFSET adj.	064 to 191	SWM (main) and the command SWS (sub).
3	RYG	RY GAIN<=> : ***	AD (IC6001 or IC6602) R input GAIN adj.		The memory tables for the RGB and
4	GYG	GY GAIN<=> : ***	AD (IC6001 or IC6602) G input GAIN adj.		component systems are separate, and are switchable with the
5	BYG	BY GAIN<=> : ***	AD (IC6001 or IC6602) B input GAIN adj.	000 to 255	command MCD.

"***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

Note: The differences in signals for the main and sublevel screens from the AV/IO Assy are compensated, and the compensation data are stored in the EEPROM (IC8705) for each screen.

COMMON ADJ. mode



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

• RGB1(+) : Adjustment of a video card and the RGB Assy

• RGB2(+) : Adjustment of the RGB Assy

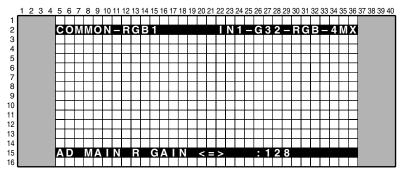
PANEL1(+) : Adjustment items related to the drive (common to the unit)
PANEL2(+) : Adjustment items related to the drive (dependent on signals)

Each time the SET key is pressed, items grouped under the subitem are selected one by one.

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1. COMMON-RGB1



Each time the \blacktriangle or \blacktriangledown key is pressed, the subitems are changed, as follows:

When the main input is selected

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range	Remarks
1	MRG	AD MAIN R GAIN <=> : ***	AD (IC6001) MAIN R GAIN adj. (for main screen)	000 to 255	
2	MGG	AD MAIN G GAIN <=> : ***	AD (IC6001) MAIN G GAIN adj. (for main screen)	000 to 255	
3	MBG	AD MAIN B GAIN <=> : ***	AD (IC6001) MAIN B GAIN adj. (for main screen)	000 to 255	
4	MRO	AD MAIN R OFFSET <=> : ***	AD (IC6001) MAIN R OFFSET adj. (for main screen)	000 to 255	
5	MGO	AD MAIN G OFFSET <=> : ***	AD (IC6001) MAIN G OFFSET adj. (for main screen)	000 to 255	
6	МВО	AD MAIN B OFFSET <=> : ***	AD (IC6001) MAIN B OFFSET adj. (for main screen)	000 to 255	

When the sub input is selected

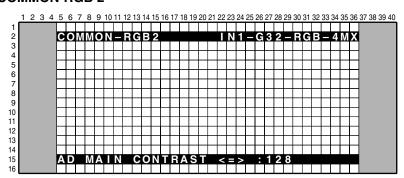
No.	Corresponding 232C Command	Function/Dis	play	Content	Adjustable Range	Remarks
1	SRG	AD SUB R GAIN <=	=> : ***	AD (IC6602) SUB R GAIN adj. (for sub screen)	000 to 255	
2	SGG	AD SUB G GAIN <=	=> :***	AD (IC6602) SUB G GAIN adj. (for sub screen)	000 to 255	
3	SBG	AD SUB B GAIN <=	=> :***	AD (IC6602) SUB B GAIN adj. (for sub screen)	000 to 255	
4	SRO	AD SUB R OFFSET <=	=> :***	AD (IC6602) SUB R OFFSET adj. (for sub screen)	064 to 191	
5	SGO	AD SUB G OFFSET <=	=> :***	AD (IC6602) SUB G OFFSET adj. (for sub screen)	064 to 191	
6	SBO	AD SUB B OFFSET <=	=> :***	AD (IC6602) SUB B OFFSET adj. (for sub screen)	064 to 191	

[&]quot;***" in the table above represents the adjustment value.

The value of each subitem can be changed using the \blacktriangleleft or \blacktriangleright key.

Note: The differences in signals for the main and sublevel screens from the RGB Assy are compensated, and the compensation data are stored in the EEPROM (IC7205) for each screen.

2. COMMON-RGB 2



No.	Corresponding 232C Command	Function/Display	Content	Adjustable range	Remarks
1	ADC	AD MAIN CONTRAST<=>: ***	AD (IC6001) MAIN RGB GAIN adj. (for main screen)	000 to 255	

[&]quot;***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

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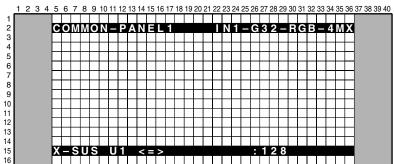
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3. COMMON-PANEL1



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range
1	XU1	X-SUS U1 <=> : ***	Adjustment of X-SUS leading edge pulse U1	124 to 132
2	XU2	X-SUS U2 <=> : ***	Adjustment of X-SUS leading edge pulse U2	124 to 132
3	XD1	X-SUS D1 <=> : ***	Adjustment of X-SUS trailing edge pulse D1	124 to 132
4	XD2	X-SUS D2 <=> : ***	Adjustment of X-SUS trailing edge pulse D2	124 to 132
5	YU1	Y-SUS U1 <=> : ***	Adjustment of Y-SUS leading edge pulse U1	124 to 132
6	YU2	Y-SUS U2 <=> : ***	Adjustment of Y-SUS leading edge pulse U2	124 to 132
7	YD1	Y-SUS D1 <=> : ***	Adjustment of Y-SUS trailing edge pulse D1	124 to 132
8	YD2	Y-SUS D2 <=> : ***	Adjustment of Y-SUS trailing edge pulse D2	124 to 132
9	YD3	Y-SUS D3 <=> : ***	Adjustment of X-SUS trailing edge pulse D3	124 to 132
10	YD4	Y-SUS D4 <=> : ***	Adjustment of X-SUS trailing edge pulse D4	124 to 132
11	VSU	VLT-SUS <=> : ***	SUS voltage adjustment	000 to 255
12	VOF	VLT-OFS <=> : ***	OFFSET voltage adjustment	000 to 255

[&]quot;***" in the table above represents the adjustment value.

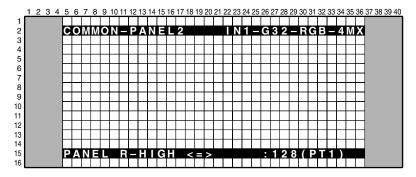
The value of each subitem can be changed using the ◀ or ▶ key.

Notes:

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- Adjustments No. 1 to No. 10 above are not normally required, unless so instructed by Service Information, etc.
- Readjustment of values for No. 11 [VSU] and No. 12 [VOF] are required when the service panel is replaced.

4. COMMON-PANEL2



Each time the ▲ or ▼ key is pressed, the subitems are changed, as follows:

No.	Corresponding 232C Command	Function/Display	Content	Adjustable Range
1	PRH	PANEL R HIGH <=> : *** (PTO)	Panel W/B R-HIGH adjustment	000 to 511
2	PGH	PANEL G HIGH <=> : *** (PTO)	Panel W/B G-HIGH adjustment	000 to 511
3	PBH	PANEL B HIGH <=> : *** (PTO)	Panel W/B B-HIGH adjustment	000 to 511
4	PRL	PANEL R LOW <=> : *** (PTO)	Panel W/B R-LOW adjustment	000 to 999
5	PGL	PANEL G LOW <=> : *** (PTO)	Panel W/B G-LOW adjustment	000 to 999
6	PBL	PANEL B LOW <=> : *** (PTO)	Panel W/B B-LOW adjustment	000 to 999
7	ABL	ABL LEVEL <=> : *** (ABx)	Power consumption adjustment	000 to 999

"***" in the table above represents the adjustment value.

The value of each subitem can be changed using the ◀ or ▶ key.

Note:

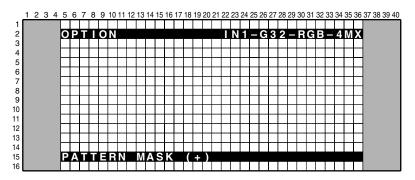
- White balance adjustment.(From No.1 to No.6). (Refer to 136 pages of the "[W/B-adjustment procedurs]")
- · Adjustments No. 7: [ABL] above are not normally required, unless so instructed by Service Information, etc.

"(PTO)" and "(ABx)" in the table above represent the following:

Indication	Table
PT1	For PC and NTSC
PT2	For PAL, For PC (48Hz)

Indication	Table
AB1	For 60Hz and 75Hz video
AB2	For 50Hz video, For 48Hz PC
AB3	For PC

OPTION mode



Select the main item "OPTION" using the MUTE key then select the subitems shown in the table below using the ▲ or ▼ key.

No.	Function/Display	Content	Remarks
1	PATTERN MASK (+)	For selecting Pattern mask of IC4	A lower layer exists.
2	FULL MASK (+)	For selecting raster mask of IC4	A lower layer exists.
3	DYNAMIC RANGE	ON ⇔ OFF	The last setting is not stored in memory (initial setting: ON).
4	EDID WRITE MODE	DISABLE ⇔ ENABLE	The last setting is not stored in memory (initial setting: DISABLE).
5	INTEGRATOR MODE	DISABLE ⇔ ENABLE	Initial setting: ENABLE

Note:

5

- For PATTERN MASK (+) and FULL MASK (+), press the SET key to switch to the lower layer.
- Adjustments No. 3 to 5 above are not required for servicing.

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1. PATTERN MASK

2. FULL MASK

A 2. FULL IVIA

В

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

OPTION

INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

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INI-G3 2 - RGB - 4 MX

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INI-G3 2 - RGB - 4 MX

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INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

OPTION

OPTION

INI-G3 2 - RGB - 4 MX

To select the mask frequency, use the \blacktriangleleft or \blacktriangleright key. To select the mask pattern, use the \blacktriangle or \blacktriangledown key.

Mask Frequency

No.	Corresponding RS-232C Command	Function/ Display	Content
1	F48	V48	Video 48-Hz sequence
2	F50	V50	Video 50-Hz sequence
3	F60	V60 (initial value)	Video 60-Hz sequence
4	F61	P60	PC 60-Hz sequence
5	F70	P70	PC 70-Hz sequence
6	F72	V72	Video 72-Hz sequence
7	F75	V75	Video 75-Hz sequence

Pattern Mask

rau	Pattern Mask				
No.	Corresponding RS-232C Command	Function/ Display	Content		
1	M00	OFF	Mask mode: OFF		
2	M01	01	White 0 to 100%		
3	M02	02	Aging mask		
4	M03	03	Aging mask (detection of still picture: OFF)		
5	M10	10	H RAMP1		
6	M11	11	H RAMP2		
7	M12	12	H RAMP3		
8	M13	13	H RAMP4		
9	M14	14	V RAMP		
10	M15	15	H/V RAMP		
11	M20	20	Window0		
12	M21	21	Window1		
13	M22	22	Window2		
14	M23	23	Window3		
15	M24	24	Window4		
16	M25	25	Window5		
17	M26	26	Window6		
18	M27	27	Window7		
19	M28	28	Window8		
20	M29	29	Window9		
21	M2E	2E	Wiper for erasing afterimage		
22	M30	30	COLOR BAR		
23	M31	31	Slanted lines		

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Full Mask

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No.	Corresponding RS-232C Command	Function/ Display	Content		
1	M00	OFF	Mask mode: OFF		
2	M51	51	Raster – White		
3	M52	52	Raster – Red		
4	M53	53	Raster – Green		
5	M54	54	Raster – Blue		
6	M55	55	Raster – Black		
7	M56	56	Raster – Cyan		
8	M57	57	Raster – Mazenta		
9	M58	58	Raster – Yellow		
10	M59	59	Raster – Cyan 274		
11	M60	60	Raster – 50 fresh color		
12	M61	61	Raster – 50 purple		
13	M62	62	Raster – 50 sky blue		
14	M63	63	Raster – Red 779		
15	M64	64	Raster – Cyan 218		
16	M65	65	Raster – Cyan 448		
17	M66	66	Raster – 43 fresh color		
18	M67	67	Raster – Red 640		
19	M68	68	Raster – Mazenta 98		
20	M69	69	Raster – 43 sky blue 1		
21	M70	70	Raster – 43 sky blue 2		
22	M71	71	Raster – 43 purple		
23	M72	72	Raster – Blue 960		
24	M73	73	Raster – Yellow 512		
25	M74	74	Raster – Gray 512		

3. DYNAMIC RANGE

The setting can be changed using the \blacktriangleleft or \blacktriangleright key.

No.	Corresponding RS-232C Command	Function/ Display	Content	
1	DYY	ON	DYNAMIC RANGE correction: ON (initial setting)	
2	DYN	OFF	DYNAMIC RANGE correction: OFF	

4. EDID WRITE MODE

The setting can be changed using the \blacktriangleleft or \blacktriangleright key.

No.	Corresponding RS-232C Command	Function/ Display	Content
1	EWN	DISABLE	Prohibiting writing EDID data (initial setting)
2	EWY	ENABLE	Enabling writing EDID data

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5. INTEGRATOR MODE

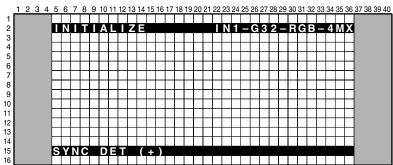
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The setting can be changed using the ◀ or ▶ key.

No.	Corresponding RS-232C Command	Function/ Display	Content
1	_	ENABLE	Permitting INTEGRATOR MODE (initial setting)
2	_	DISABLE Prohibiting INTEGRATOR MODE	

INITIALIZE mode



The subitems can be changed using the \blacktriangle or \blacktriangledown key. С

No.	Corresponding RS-232C Command	Function/Display	Content		
1	_	SYNC DET (+)	(Not used)		
2	_	DRIVE MODE (+)	(Not used)		
3	_	SIDE MASK LEVEL (+)	(Not used)		
4	_	PANEL REVICE (+)	(Not used)		
5	FST	FINAL SETUP	For initializing user's settings and some factory settings		
6	_	C TEMP LOW (+)			
7	_	C TEMP MID LOW (+)			
8	_	C TEMP STD (+)	For adjusting the user's C TEMP MODE item selected		
9	_	C TEMP MID HIGH (+)	To adjusting the user's C TEMP MODE item selected		
10	_	C TEMP HIGH (+)			
11	_	C TEMP MODE2 (+)	(Not used)		
12	_	SLOT PROTECT<=>	For setting permission/prohibition of SLOT		

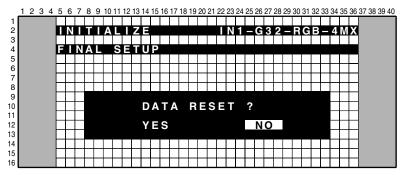
Note: Any item followed by (+) has a lower layer to which you can switch using the SET key.

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1. FINAL SETUP

5



Select YES or NO using the \blacktriangleleft or \blacktriangleright key then press the SET key for finalizing the selection: YES: For executing FINAL SETUP

NO : For not executing FINAL SETUP

In FINAL SETUP, the following items can be initialized:

	Item (operation)	Factory setting	Remarks
Normal	Input function (main)	INPUT1	
	Input function (sub)	INPUT2	
	Screen size	VIDEO WIDE or FULL	The screen-size setting will be one of the factory-preset
		PC DOT BY DOT or FULL or 4:3 or PARTIAL	values, based on the results of signal-type detection (SIG-MODE).
	Volume	0	
	Multi screen	OFF	
	FUNCTIONAL LOCK	LOCK OFF	
Menu	PICTURE	Default setting for all adjustment items	For each input function
setting	SCREEN	Default setting for all adjustment items	For each input function
	POWER MANAGEMENT	OFF	For each input function
	AUTO POWER OFF	DISABLE	For each input function
	COLOR TEMP.	MIDDLE	For each input function
	DNR	MIDDLE	For each input function
	MPEG NR	LOW	For each input function
	СТІ	ON	For each input function
	PURECINEMA	OFF	For each input function
	COLOR DECODING	COMPONENT 1 or COMPONENT 2	One of the factory-preset signals is output, based on the results of signal-type detection (SIG-MODE) for the input function.
	CLAMP POSITION	AUTO	For each input function
	COLOR SYSTEM	AUTO	For each input function
	SIGNAL FORMAT	VGA or XGA or SXGA or 720-PC *	One of the factory-preset signals is output, based on the results of signal-type detection (SIG-MODE) for the input function.
	LANGUAGE	ENGLISH	
	ENERGY SAVE	STANDARD	
	SCREEN MGT.	OFF/ 01H00M	
	ORBITER	OFF	
	MASK CONTROL	ON	
	AUTO SET UP MODE	INACTIVE	
	AUTO FUNCTION	OFF	
	AUDIO OUT	FIXED	

^{* 720-}PC selectable only with video card is inserted

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1	2	3	4

	Item (operation)	Factory setting	Remarks
Integrator	PICTURE	Default setting for all adjustment items	For each input function
menu	WHITE BAL.	Default setting for all adjustment items	For each input function
setting	SCREEN	Default setting for all adjustment items	For each input function
	GRADATION	VIDEO DRE MID PC GAMMA 2.0	The screen-size setting will be one of the factory-preset values, based on the results of signal-type detection (SIG-MODE).
	BRT. ENHANCE	OFF	For each input function
	SUB VOLUME	20	For each input function
	SCREEN MGT. SET	00H10M/00H30M/WHITE/ 00H10M/INV.1/1	
	SCREEN MASK	OFF	
	SIDE MASK	NORMAL/80/80/80	
	2x2 MODE	OFF/UP LEFT/NORMAL	
	MIRROR MODE	OFF	
	BAUD RATE	9600BPS	
	ID NO. SET		
	OSD	ON	
	FRONT INDICATOR	ON	
	FAN CONTROL	AUTO	
	COLOR MODE	NORMAL	
	PRO USE	OFF/OFF/DISABLE/ MOTION	
	FRC	MODE1	
Factory	PATTERN MASK	OFF	
	FULL MASK	OFF	
	EDIT WRITE MODE	DISABLE	
232C	LOUDNESS	OFF	

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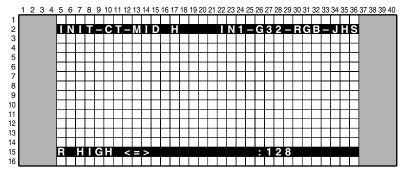
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2. C TEMP

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The indication on the 2nd line in the above display varies according to the subitem selected in the upper layer, as follows: INIT-CT- ****

****: LOW/MID L/STD/MID H/HIGH/MOD2

Notes: Adjustments are not normally required, unless so instructed by Service Information, etc.

Each time the ▲ or ▼ key is pressed, items grouped under the subitems are changed, as follows:

No.	Function/Display	Content			
1	R HIGH <=>	For adjusting R highlight in the selected color temperature mode			
2	G HIGH <=>	For adjusting G highlight in the selected color temperature mode			
3	B HIGH <=>	For adjusting B highlight in the selected color temperature mode			
4	R LOW <=>	For adjusting R lowlight in the selected color temperature mode			
5	G LOW <=>	For adjusting G lowlight in the selected color temperature mode			
6	B LOW <=>	For adjusting B lowlight in the selected color temperature mode			

To change the value of each item, press the ◀ or ▶ key.

3. SLOT PROTECT

			Result of Distinction				
Option No.	Function/ Display	Operation/Control	PDA-5002	PDA-5003 PDA-5004	3G-TYPE * (* A - H)	4G-TYPE * (* A - J)	
1 (initial setting)	ALL	Permitting all Video card	×	0	0	0	
2	P-SLOT	Permitting only the Video card (PDA-5003/ PDA- 5004) made by Pioneer	×	0	×	×	

- O: Operable according to the setting x: The corresponding Video card will be treated as an incompatible Video card.
- When a disallowed video card is inserted, the power is not turned on, and the red and green LEDs flash alternatively.
- For details on results of distinction, see "SLOT-DET of the VERSION (2)."

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6.5 COMMAND DESCRIPTION

About GET Command

Operation description of GET command

■ Conditions under which GET commands are enabled

Most of the GET commands are enabled at any time, regardless of unit's being on/off or in Factory or Normal mode. However, some GET commands must be issued while the power is on to acquire correct data.

[Operations]

- Reading out and sending various data stored in the EEPROMs and the RAMs of microcomputers
- Adding a received string of command characters at the beginning of reply data as an echoback
- Decimal notation are converted into ASCII numerics and transmitted.
- CS is 2 bytes, to be interpreted as ASCII codes for 2 hexadecimal digits. These are the low-order 2 bytes of the total value of "receive command + transmission data" (except STX and ETX).

■ Reply data format

	STX	Received command (3byte)	Transmission data	•••	Transmission data	CS (2byte)	ETX
Example:	[02]	GAS	2	•••	0	97	[03]

GST: GET STATUS

Order	Data	Size	Remarks	
1	Display data	3 byte	See the table below.	
2	Power data	3 byte	See the table below. (The third character is for the subinput.)	
3	Input function data (main)	3 byte	Input data during GST reception (INPUTs 1 to 5 are indicated as IN 1-5.)	
4	Input function data (sub)	3 byte	Subinput data during GST reception (INPUTs 1 to 5 are indicated as IS 1-5.)	
5	Screen size data	1 byte	See the table below.	
6	Two-screen indication	1 byte	0: OFF (Full-screen) 1: 2-SCREEN 2: PinP (Lower right) 3: PinP (Upper right) 4: PinP (Upper left) 5: PinP (Lower left) 6: PoutP	
7	FUNCTIONAL LOCK data	1 byte	0: LOCK OFF 1: BUTTONS LOCK 2: IR LOCK 3: IR&BUTTONS LOCK 4: MEMORY LOCK	
8	Dummy data	3 byte	(Three-digit figure)	
9	Temperature data 2 (TEMP2)	3 byte	°C (Not.1)	
10	Temperature data 3 (TEMP3)	3 byte	°C (Not.2)	
11	Serial	15 byte	(Νοτ.4)	
12	Dummy data	3 byte	(Three-digit figure)	
13	Dummy data	3 byte		
14	HOUR METER data	5 byte	Indicated in hours	
15	Dummy data	2 byte	(Checksum)	

Display data	1st character 2nd character	Data on generation: 4 (Fixation) Data on screen size: 4 (43 inches), 5 (50 inches)
	3rd character	Data on destination: M (Fixation)
Power data	1st character 2nd character	Power status and signal status PN (power on & at usually, of signal Input), PL (power on & no input), PO (power on & out of range signal Input), SN (stand by/ on), SW (power management standby), SS (SD and PD standby),
	3rd character	Multi screen features. The sub signal state of a input (see Note. 2) N (at usually, of signal Input), L(no Input), O (out of range in signal Input)
Screen size data	1st character	Numbers used are the same as those that indicate SIG-MODE screen sizes. 0: Dot by Dot PARTIAL, 1: 4:3, 2: FULL or FULL1080i, 3: ZOOM, 4: WIDE, 6: CINEMA, 8: FULL1035i, 9: UNDERSCAN

Not.1: During Standby or immediately after the power is turned on, accurate temperature data cannot be obtained. To obtain an accurate temperature reading, wait for a few minutes after the power is turned on.

Not.2: During Standby or full-screen display, dummy data (symbols) are output.

Not.3: During Standby or full-screen display, values stored in memory of the unit are output.

Not.4: See "3. SERIAL" on page 97 for details on the serial data.

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GS1: Returning information on the model and the version of the software

Order	Data	Size
1	Data on the display	3 byte
2	Version of the module microcomputer	4 byte
3	Version of the IC4-MANTA	4 byte
4	Sequence version (50VIDEO)	4 byte
5	Sequence version (50PC)	4 byte
6	Sequence version (43VIDEO)	4 byte
7	Sequence version (43PC)	4 byte
8	Version of the IF microcomputer	4 byte
9	Version of the main microcomputer	4 byte
10	Version of the IC3-MANTA	4 byte
11	Version of the OSD	4 byte
12	Dummy	12 byte

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Breakdown of the data on the display

Data	Model			
MX5	PDP-504CMX series			
MX4	PDP-434CMX series			

GPW: RGB-level-related adjustment values of the panel system

Order	Data	Size
1	Panel W/B table currently used	3 byte
2	Main contrast	4 byte
3	Red high light of the W/B adjustment value	4 byte
4	Green high light of the W/B adjustment value	4 byte
5	Blue high light of the W/B adjustment value	4 byte
6	Main brightness	4 byte
7	Red low light of the W/B adjustment value	4 byte
8	Green low light of the W/B adjustment value	4 byte
9	Blue low light of the W/B adjustment value	4 byte

Data	Table			
PT1	WB table for NTSC			
PT2	WB table for PAL			
PT3	Reserved table			

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GPD: Power-down information

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Order	Data	Size	Order	Data	Size
1	Latest "1st PD" data	1 byte	17	Fifth latest "1st PD" data	1 byte
2	Latest "2nd PD" data	1 byte	18	Fifth latest "2nd PD" data	1 byte
3	Data of hour meter for the latest PD	7 byte	19	Data of hour meter for the fifth latest PD	7 byte
4	Data on temperature for the latest PD (TEMP1)	3 byte	20	Data on temperature for the fifth latest PD (TEMP1)	3 byte
5	Second latest "1st PD" data	1 byte	21	Sixth latest "1st PD" data	1 byte
6	Second latest "2nd PD" data	1 byte	22	Sixth latest "2nd PD" data	1 byte
7	Data of hour meter for the second latest PD	7 byte	23	Data of hour meter for the sixth latest PD	7 byte
8	Data on temperature for the second latest PD (TEMP1)	3 byte	24	Data on temperature for the sixth latest PD (TEMP1)	3 byte
9	Third latest "1st PD" data	1 byte	25	Seventh latest "1st PD" data	1 byte
10	Third latest "2nd PD" data	1 byte	26	Seventh latest "2nd PD" data	1 byte
11	Data of hour meter for the third latest PD	7 byte	27	Data of hour meter for the seventh latest PD	7 byte
12	Data on temperature for the third latest PD (TEMP1)	3 byte	28	Data on temperature for the seventh latest PD (TEMP1)	3 byte
13	Fourth latest "1st PD" data	1 byte	29	Eighth latest "1st PD" data	1 byte
14	Fourth latest "2nd PD" data	1 byte	30	Eighth latest "2nd PD" data	1 byte
15	Data of hour meter for the fourth latest PD	7 byte	31	Data of hour meter for the eighth latest PD	7 byte
16	Data on temperature for the fourth latest PD (TEMP1)	3 byte	32	Data on temperature for the eighth latest PD (TEMP1)	3 byte

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Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on "1st/2nd PD" data

Data	Power-down Point
0	No power-down
1	Not used (for MR-POWER)
2	P-POWER
3	SCAN
4	SCN-5V
5	Y-DRIVE
6	Y-DCDC
7	Y-SUS
8	ADRS
9	X-DRIVE
Α	X-DCDC
В	X-SUS
С	DIG-DCDC
D	Drive processing IC (IC4)
Е	Spare
F	Power-down point not identified

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GNG: NG history

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Order	Data	Size	Order	Data	Size
1	Latest SD data	1 byte	17	Fifth latest SD data	1 byte
2	Data of subcategory for the latest SD	1 byte	18	Data of subcategory for the fifth latest SD	1 byte
3	Data of hour meter for the latest SD	7 byte	19	Data of hour meter for the fifth latest SD	7 byte
4	Data on temperature for the latest SD	3 byte	20	Data on temperature for the fifth latest SD	3 byte
5	Second latest SD data	1 byte	21	Sixth latest SD data	1 byte
6	Data of subcategory for the second latest SD	1 byte	22	Data of subcategory for the sixth latest SD	1 byte
7	Data of hour meter for the second latest SD	7 byte	23	Data of hour meter for the sixth latest SD	7 byte
8	Data on temperature for the second latest SD	3 byte	24	Data on temperature for the sixth latest SD	3 byte
9	Third latest SD data	1 byte	25	Seventh latest SD data	1 byte
10	Data of subcategory for the third latest SD	1 byte	26	Data of subcategory for the seventh latest SD	1 byte
11	Data of hour meter for the third latest SD	7 byte	27	Data of hour meter for the seventh latest SD	7 byte
12	Data on temperature for the third latest SD	3 byte	28	Data on temperature for the seventh latest SD	3 byte
13	Fourth latest SD data	1 byte	29	Eighth latest SD data	1 byte
14	Data of subcategory for the fourth latest SD	1 byte	30	Data of subcategory for the eighth latest SD	1 byte
15	Data of hour meter for the fourth latest SD	7 byte	31	Data of hour meter for the eighth latest SD	7 byte
16	Data on temperature for the fourth latest SD	3 byte	32	Data on temperature for the eighth latest SD	3 byte

Hour meter data; 1 to 5 byte: time, 6 to 7 byte: minute

• Details on the SD data

Data	Cause of Shutdown
0	No abnormality
1	IC4
2	Module microcomputer IIC
3	Abnormality in DIG-RST2 (power decrease of ASIC)
4	Panel having abnormally high temperature
5	Audio failure (short-circuiting of the speakers)
6	Communication failure of the module microcomputer
7	Three-wire serial communication failure of the main microcomputer
8	IIC communication failure of the main microcomputer
9	Communication failure of the main microcomputer
Α	Fan stopped
В	Temperature abnormality
D	Abnormality in MAIN-RST2
F	Others

• Data on the subcategories for the module microcomputer IIC

Data	Cause of Shutdown			
0	No subcategory			
1	EEPROM (4k) (IC5206)			
2	EEPROM (2k) (IC7102)			

• Data on the subcategories for failure in 3-wire serial communication of the main microcomputer

Data	Cause of Shutdown			
0	No subcategory			
1	Communication failure of the IF microcomputer			
2	IC2 communication failure (IC7004)			
3	IC3 communication failure (IC7101)			

• Data on the subcategories for failure in IIC communication of the main microcomputer

Data	Cause of Shutdown
0	No subcategory
1	EEPROM (128k) (IC7205)
2	Not used
3	IC1 main (IC6107)
4	IC1 sub (IC6255)
5	AD-PLL main (IC6001)
6	AD-PLL sub (IC6602)
7	IC6 (IC5701)
8	Not used
9	Not used
Α	Not used
В	Not used
С	Not used
D	Not used
E	Not used
F	EEPROM (SLOT) (IC6257)
G	Not used
Н	Not used
N	IC6/2 (CMX) (IC5801)

• Subcategory data on abnormal temperature

Data Cause of Shutdown							
2	Temperature inside the unit (INSIDE)						
3	Ambient temperature (AIR)						

• Subcategory data on other failures

Data	Cause of Shutdown						
1	Optical sensor (RLS)						
2	Power monitor 1 (VCC-D1)						
3	Power monitor 1 (VCC-D2)						

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GS2: Status information

Order	Data	Size	Remarks
1	Notifying of switching to Standby mode	1 byte	1: Successfully switched to Standby mode
2	Whether the unit has already been adjusted or not	1 byte	0: Adjusted, 1: Not adjusted
3	With/without backup of adjustment data	1 byte	0: With backup, 1: Without backup
4	Power-down information	2 byte	1st byte: 1st PD, 2nd byte: 2nd PD
5	Temperature information (TEMP1)	3 byte	000 to 255
6	Abnormality in RST2 (power decrease of the DC-DC converter)	1 byte	
7	IC4 communication failure	1 byte	
8	EEPROM communication failure	1 byte	0: Normal, 1: Shutdown process caused by an abnormality
9	Failure in audio		completed, 2: In the process of displaying a warning against shutdown caused by an abnormality
10	Communication failure of the volume IC	1 byte	Shutdown caused by an abhormality
11	Backup-ROM communication failure	1 byte	
12	Failure in temperature information (TEMP1)	1 byte	
13	Activation of panel protection	1 byte	0: Panel protection not activated, 1: Panel protection being activated
14	(Reservation)	2 byte	**
15	Accumulated hour meter data cleared (Note 1)	7 byte	1-5 bytes: Hours, 6-7 bytes: Minutes
16	Hour meter data (clearable) (Note 2)	7 byte	1-5 bytes: Hours, 6-7 bytes: Minutes

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- **Note 1:** The data are updated each time the hour meter data are cleared. The total value of data items 15 and 16 indicates accumulated power-on time after shipment. Data item 15 cannot be cleared with a command.
- **Note 2 :** The hour meter data indicated on the Factory menu are displayed. The data represent accumulated power-on time of the panel after the last clearance of hour meter data. At shipment, the data are reset to 0.

• Power-down information

Data	Power-down point							
0	No power-down							
1	Not used							
2	P-POWER							
3	SCAN							
4	SCN-5V							
5	Y-DRIVE							
6	Y-DCDC							
7	Y-SUS							
8	ADRS							
9	X-DRIVE							
Α	X-DCDC							
В	X-SUS							
С	DIG-DCDC							
D	Drive processing IC (IC4)							
Е	Reservation							
F	Power-down point not identified							

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^{*} Ignore the 2-byte checksum at the end.

^{*} Data to be used for servicing may be item 5 (temperature data) and 15 and 16 (hour meter data).

GPM: Value of the pulse meter

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Order	Data	Size
1	Pulse meter (Block area 1)	10 byte
2	Pulse meter (Block area 2)	10 byte
3	Pulse meter (Block area 3)	10 byte
4	Pulse meter (Block area 4)	10 byte
5	Pulse meter (Block area 5)	10 byte

Note:

The number of electric discharges at each block is displayed. The first digit represents the number of tens of thousands.

[Location of the block areas from which values from the pulse meter are obtained]

					1	Block ①										
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
48	49	50	51	52	53	54	55	56	57	58	59	60_	Block ②	62	63	
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
80	81	82	83	84	85	86_	87	88	89	90	91	92	93	94	95	
96	97	98	99	100	101	10:	Block ③	104	105	106	107	108	109	110	111	
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	Block	(4)
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	
	-		Block (5))	-						-				•	

GPC: Number of times the power was turned on

Order	Data	Size
1	Power-on counter	8 byte

GAJ: Drive-related adjustment values

Order	Data	Size
1	ABL table currently used	3 byte
2	Upper limit of the power	3 byte
3	Vsus adjustment value	3 byte
4	Vofs adjustment value	3 byte
5	X-SUS-U1 adjustment value (XU1)	3 byte
6	X-SUS-U2 adjustment value (XU2)	3 byte
7	X-SUS-D2 adjustment value (XD2)	3 byte
8	X-SUS-D1 adjustment value (XD1)	3 byte
9	Y-SUS-U1 adjustment value (YU1)	3 byte
10	Y-SUS-U2 adjustment value (YU2)	3 byte
11	Y-SUS-D1-2 adjustment value (YD2)	3 byte
12	Y-SUS-D1-1 adjustment value (YD1)	3 byte
13	Y-SUS-D2-2 adjustment value (YD4)	3 byte
14	Y-SUS-D2-1 adjustment value (YD3)	3 byte

Data Table							
AB1	ABL table for NTSC						
AB2	ABL table for PAL, ABL table for PC (48Hz)						
AB3	ABL table for PC						

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LIST OF RS-232C COMMAND

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Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
[A]					
ABL	Adjusting power consumption	0	000	255	
ADC	AD CONTRAST adjustment	0	000	255	
AMN	Audio MUTE OFF				
AMY	Audio MUTE ON				
AST	Execution of auto setup				The values for positions are not stored in memory in Factory mode
[B]		l			
ВСР	Transmitting the backup data to the DIGITAL VIDEO Assy				
BRA	Indicate a current baudrate				
BRAS01	Setting the UART to 232C (1200 bps)				
BRAS02	Setting the UART to 232C (2400 bps)				
BRAS03	Setting the UART to 232C (4800 bps)				
BRAS04	Setting the UART to 232C (9600 bps)				
BRAS05	Setting the UART to 232C (19200 bps)				
BRAS06	Setting the UART to 232C (38400 bps)				
BYG	Adjusting BY GAIN	0	000	255	
[C]	r wighting Dir Grifft		300		I
CNG	MR NG INFORMATION CLEAR				
CPC	Clearing the power-on counter				
CPD	Clearing power-down information				
[D]	Cloaring power down information	l			<u> </u>
DIN	Turning off the on-screen display	1			Prohibit OSD indication
	. ,				While the DIY command is in force, the duration of
DIY	Turning on the on-screen display				OSD is unlimited.
DOF	Erasing the currently displayed indications				If another command is received, an OSD is displayed.
DRF	Turning off the power for the drive system				Return to the DRN state by turning the power off
DRN	Turning on the power for the drive system				
DW0	Decresing the adjustment value by 10				
DWn	Decreasing the adjustment value by n (n=1 to 9)				
DWF	Minimizing the adjustment value				
DYN	No D-range correction				
DYY	With D-range correction				
[E]		ı			
EWN	Prohibiting writing of EDID data				
EWY	Permitting writing of EDID data				
[F]		1			
F48	Video 48-Hz sequence				
F50	Video 50-Hz sequence				
F60	Video 60-Hz sequence				
F61	PC 60-Hz sequence				
F70	PC 70-Hz sequence				
F72	Video 72-Hz sequence				
F75	Video 75-Hz sequence				
FAJ	Determining the adjustment flag of the DIGITAL VIDEO Assy in "adjustment is completed"				
FAN	Turning Service Factory mode off				The OSD equivalent to that usually displayed when th power is turned on is displayed.
FAY	Turning Service Factory mode on				
FCA	Turning fan roll control to auto				
FCM	Maximizing the fan roll control				
FST	Executing FINAL SETUP				
FXO	Selecting audio output fixing				
[G]					
GAJ	Obtaining the adjustment values for the panel				
GMM	Switching the gamma	0	000	007	
GNG	Obtaining the shutdown information				

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		Validity of Direct	Lower	Upper	
Command	Operation	Direct Numeric Input	limit	limit	Remarks
GNP	Obtaining the serial no.				
GPC	Obtaining the P ON COUNTER value				
GPD	Obtaining power-down information				
GPM	Obtaining the PULSE METER data				
GPP	Obtaining the PD polling log				
GPW	Obtaining the PANEL W/B data				
GS1	Obtaining the version data for each device				
GS2	Obtaining the temperature data and unit state				Data of module microcomputer system
GS4	Obtaining Factory information				
GST	Obtaining the temperature data and unit state				Data of main microcomputer system
GYG	FY GAIN	0	000	255	
[H]		•		•	
HMD	Indicating the hour meter				
[1]		•		•	
IDC	Clearing the ID				
IDS	Setting the ID	0	(00)	(FF)	
IN1	Switching the main screen to Input 1		,	` ′	
IN2	Switching the main screen to Input 2				
IN3	Switching the main screen to Input 3				
IN4	Switching the main screen to Input 4				
IN5					
INP	Switching the main screen to Input 5				
	Indicating the input function of current main screen				
INPS01	Switching the main screen to Input 1				
INPS02	Switching the main screen to Input 2				
INPS03	Switching the main screen to Input 3				
INPS04	Switching the main screen to Input 4				
INPS05	Switching the main screen to Input 5				
[L]		1			Т.
LNN	Prohibiting LOUDNESS				
LNY	Permitting LOUDNESS				
[M]					
M00	Mask mode: OFF				
M01	White: 0 to 100%				
M02	Aging mask				
M03	Aging mask (detection of still picture: OFF)				
M10	RAMP slant 1				
M11	RAMP slant 4				
M12	RAMP slant 1 shifting				
M13	RAMP slant 4 shifting				
M14	V RAMP				
M15	H/V RAMP				
M20	WINDOW-Low: 102 / High: 870				
M21	WINDOW-Low: 102 / High: 1023				
M22	WINDOW-Low: 0 / High: 1023				
M23	WINDOW-Low. 67 High. 1023 WINDOW-High: 1023 (CENTER)				1
M24	WINDOW-PEAK WINDOW				
M25	WINDOW maganta/group atripe				
M26	WINDOW-magenta/green stripe				
M27	WINDOW-green/magenta stripe				
M28	Window (black & white [1 x 8], checkered pattern [for EMG check])				
M29	Window (for W/B adjustment, magenta, yellow)				
M2E	Wiper to prevent phosphor burn				
M2F	Warning mask of cable disconnection (Red and green light alternately)				
M30	COLOR BAR				
M31	Slanted lines				
	Raster-white	1			The state of the s

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Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
M52	Raster-red				
M53	Raster-green				
M54	Raster-blue				
M55	Raster-black				
M56	Raster-cyan				
M57	Raster-magenta				
M58	Raster-yellow				
M59	Raster-cyan 274				
M60	Raster-50 flesh color				
M61	Raster-50 light purple				
M62	Raster-50 sky blue				
M63	Raster-red 779				
M64	Raster-cyan 218				
M65	Raster-cyan 448				
	Raster-43 flesh color				
M66					
M67	Raster-red 640				
M68	Raster-magenta 98				
M69	Raster-43 sky blue 1				
M70	Raster-43 sky blue 2				
M71	Raster-43 light purple				
M72	Raster-blue 960				
M73	Raster-yellow 200				
M74	Raster-gray 511 (spare)				
MBG	AD MAIN B GAIN	0	000	255	
MBO	AD MAIN B OFFSET	0	000	255	
MCD	Indicating the current color decoding				
MCDS01	Setting the color decoding to RGB (VIDEO)				
MCDS02	Setting the color decoding to COMPONENT1 (YCbCr)				
MCDS03	Setting the color decoding to COMPONENT2 (YPbPr)				
MGG	AD MAIN G GAIN	0	000	255	
MGO	AD MAIN G OFFSET	0	000	255	
MRG	AD MAIN R GAIN	0	000	255	
MRO	AD MAIN R OFFSET	0	000	255	
MTN	Turning the video mute off	_			
MTY	Turning the video mute on				
[N]	Turning the video mate on				
	Prohibiting shutdown operation				No writing of the latest data
[P]	Trombing shudown operation				INO WITHING OF THE PALEST GATA
PAF	PEAK LIMITER OFF				
	PEAK LIMITER OFF				
PAN			000	F11	
PBH	Panel W/B B - HIGH adjustment	0	000	511	
PBL	Panel W/B B-LOW adjustment	0	000	999	
PDN	Do not pass a PD signal through the POWER SUPPLY Unit				
PDY	Pass a PD signal through the POWER SUPPLY Unit				
PGH	Panel W/B G-HIGH adjustment	0	000	511	
PGL	Panel W/B G-LOW adjustment	0	000	999	
PMD	Indicating the pulse meter				
POF	Turning the power OFF				
PRH	Panel W/B R-HIGH adjustment	0	000	511	
PRL	Panel W/B R-LOW adjustment	0	000	999	
[R]					
RYG	RY GAIN	0	000	255	
[S]					
[S] SBG	AD SUB B GAIN	0	000	255	
	AD SUB B GAIN AD SUB B OFFSET	0	000 064	255 191	

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Command	Operation	Validity of Direct Numeric Input	Lower limit	Upper limit	Remarks
SFTS01	Setting the signal format to PC FORMAT1 (VGA or XGA or SXGA or 720-PC)				
SFTS02	Setting the signal format to PC FORMAT2 (WVGA or WXGA or SXGA+)				
SFTS03	Setting the signal format to (VIDEO) 525p or 750p				
SFTS04	Setting the signal format to PC AUTO				
SGG	AD SUB G GAIN	0	000	255	
SGO	AD SUB G OFFSET	0	064	191	
SN0	Setting 1, 2, or 3 for the serial number of the panel				
SN1	Setting 4, 5, or 6 for the serial number of the panel				
SN2	Setting 7, 8, or 9 for the serial number of the panel				
SN3	Setting 10, 11, or 12 for the serial number of the panel				
SN4	Setting 13, 14, or 15 for the serial number of the panel				
SRG	AD SUB R GAIN	0	000	255	
SRO	AD SUB R OFFSET	0	064	191	
SVL	Adjusting the sub volume	0	000	020	
SWM	Full-screen display of main output				
SWN	Main/sub displays OFF				
SWS	Full-screen display of sub output				
SZM	Indicating the current screen size setting				
SZMS00	Setting the screen size to Dot by Dot or PARTIAL				
SZMS01	Setting the screen size to 4:3				
SZMS02	Setting the screen size to FULL or FULL1080i				
SZMS03	Setting the screen size to ZOOM				
SZMS04	Setting the screen size to CINEMA				
SZMS05	Setting the screen size to WIDE				
SZMS06	Setting the screen size to FULL1035i				
[U]		•			
UAJ	Determining the adjustment flag of the DIGITAL VIDEO Assy in "adjustment is completed"				
UP0	Increasing the adjustment value by 10				
UPn	Increasing the adjustment value by n (n=1 to 9)				
UPF	Maximizing the adjustment value				
[V]					
VOF	Offset voltage adjustment	0	000	255	
VOL	Adjusting the audio volume	0	000	045	
VRO	Selecting the variable audio output				
VSG	CVY GAIN	0	064	191	
VSO	Adjusting the CV/YC input with difference in the input	0	000	255	
VSU	SUS voltage adjustment	0	000	255	
[X]				1	
XD1	D1 trailing-edge pulse of X-SUS	0	000	255	
XD2	D2 trailing-edge pulse of X-SUS	0	000	255	
XU1	U1 leading-edge pulse of X-SUS	0	000	255	
XU2	U2 leading-edge pulse of X-SUS	0	000	255	
[Y]				1	
YD1	D1 trailing-edge pulse of Y-SUS	0	000	255	
YD2	D2 trailing-edge pulse of Y-SUS	0	000	255	
YD3	D3 trailing-edge pulse of Y-SUS	0	000	255	
YD4	D4 trailing-edge pulse of Y-SUS	0	000	255	
YU1	U1 leading-edge pulse of Y-SUS	0	000	255	
VIIO	LI2 leading-edge nulse of V-SLIS	1 0	000	255	İ

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YU2

U2 leading-edge pulse of Y-SUS

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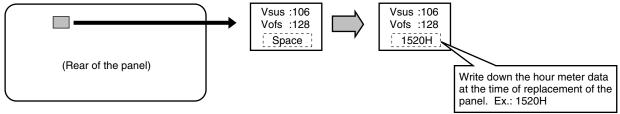
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6.6 METHOD FOR REPLACING THE SERVICE PANEL ASSY

The following adjustments and operations are required when the Panel Assy is replaced for servicing.

■ Adjustments of the Vsus and Vofs voltages

Input the reference adjustment values that are described on the service panel for the Vsus and Vofs voltages, with the RS232C commands or on the Factory menu.

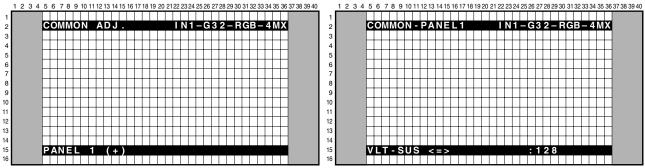


• With the RS232C commands

Input the adjustment values described on the label attached on the rear of the panel:

- Reference adjustment of the Vsus voltage : [VSU***] Ex. : [VSU106]
 Reference adjustment of the Vofs voltage : [VOF***] Ex. : [VOF128]

• On the Factory menu



Using the MUTE key, select the main item "COMMON ADJ." Select the subitem "PANEL 1" then "VLT-SUS" or "VLT-OFS," using the ▲ or ▼ key and SET key. Enter the value, using the ◀ or ► key.

■ Clearing various logs for the panel, such as that for the hour meter

It is necessary to clear various logs, such as that for the hour meter, to match the driving hours of the panel before and after replacement. Write down the hour-meter data at the time of replacement of the panel on the label attached to the rear of the panel.

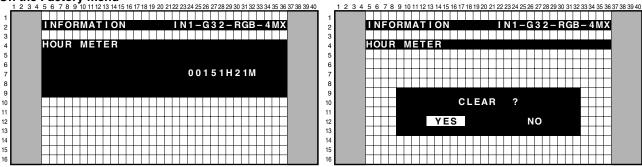
Notes: • For clearing, use the RS232C commands or the Factory menu.

• With the RS232C commands

You can obtain the accumulated power-on time data of the product itself with the "GS2" RS232C command. (See "6.5 Command description".)

1 For clearing the hour meter (for the panel): CHM 2 For clearing the pulse meter : CPM : CSD 3 For clearing the shutdown (SD) log 4 For clearing the power-down (PD) log : CPD

On the Factory menu



Using the MUTE key, select the main item "INFORMATION." Select the subitem "HOUR METER," using the ▲ or ▼ key and SET key. Clear the hour-meter data.

In the same way, select the subitem "PULSE METER," "PANEL SD," or "PANEL PD" under the main item "INFORMATION" then clear the data.

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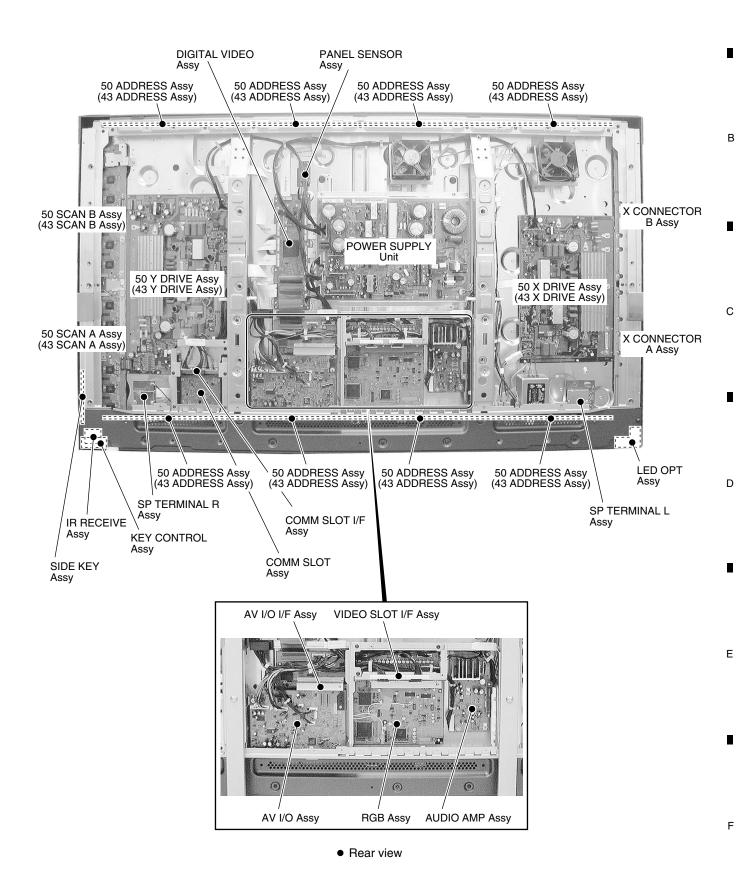
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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 CONFIGURATION OF THE PC BOARD

Note: This illustration is 50 inch model.



7.1.2 DIAGNOSIS FOR SHUTDOWN AND POWER-DOWN BY LED

• Operation statuses indicated by LEDs

LED Α RED GREEN Standby Normal RED GREEN Power on RED GREEN 0.5s 0.5s 0.5s 3.0s Power-down RED GREEN Abnormality Shutdown 0.5s 0.5s 0.5s В RED GREEN Interval 1.5S Slot Protect 0.3s Note: : Lit in red : Lit in green : Not lit

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• Identification of locations having abnormality by the number of times the LEDs flash

■ On Shutdown and power-down

Shutdown

- Operation: When the microcomputer detects any abnormality, it forcibly shuts the unit off.
- LED indication: The LED flashes in green.

Note: The LED flashes regardless of the FRONT INDICATOR setting on the Integrator menu.

Power-down

- Operation: When the unit is in emergency status, a protection circuit is activated, and the power is shut off.
- LED indication: The LED flashes in red.

Category		ED	Conten	ıt	Unit's Operation	Warning Message
,	STB	ON	0		-	3 3 3 3
		Once	Communication fair panel-drive IC		Shutdown 3 seconds after warning	Shutdown by circuit failure (01)
		Twice	Communication fail module IIC	ilure of the	Shutdown 3 seconds after warning	Shutdown by circuit failure (02)
		3 times	Power decrease of DC-DC converter	f the digital	Immediate shutdown	
		4 times	Panel having high temperature		Shutdown 30 seconds after warning	Shutdown by warning temperature rise (04)
		5 times	Audio failure		Shutdown 3 seconds after warning	Shutdown by warning speaker failure (05)
		6 times	Communication fail module microcomp		Shutdown 3 seconds after warning	Shutdown by circuit failure (06)
SD		7 times	Main 3-wire serial communication in	failure	Shutdown 3 seconds after warning	Shutdown by circuit failure (07)
		8 times	Communication famain IIC	ilure of the	Shutdown 3 seconds after warning	Shutdown by circuit failure (08)
		9 times	Communication fairmain microcomput		Immediate shutdown	
		10 times	Fan in failure		Shutdown 3 seconds after warning	Shutdown by warning fan abnormality (10)
		11 times	Unit having higher temperature		Shutdown 30 seconds after warning	Shutdown by warning temperature rise (11)
-		13 times	Main microcomput power supply NG	er ASIC	Immediate shutdown	
		14 times	Communication fa	ilure of	Shutdown 3 seconds after warning	Shutdown by circuit failure (14)
		15 times	Other failure	RLS	Shutdown 30 seconds after warning	
			-	VCC-D1 VCC-D2	Shutdown 3 seconds after warning	Shutdown by circuit failure (15)
	Once					
	Twice		Power		Immediate power-down	
	3 times		SCAN		Immediate power-down	
	4 times		SCAN-5V		Immediate power-down	
	5 times		Y-DRIVE		Immediate power-down	
	6 times		Y-DCDC		Immediate power-down	
PD	7 times		Y-SUS		Immediate power-down	
	8 times		ADDRESS		Immediate power-down	
	9 times		X-DRIVE		Immediate power-down	
	10 times		X-DCDC		Immediate power-down	
	11 times		X-SUS DIGITAL-DCDC		Immediate power-down Immediate power-down	
	12 times 15 times		UNKNOWN (Not in Drive processing In		Immediate power-down	

^{*1:} If the unit cannot identify which protection circuit was activated, even if a power-down had been detected, the red LED may flash 15 times.

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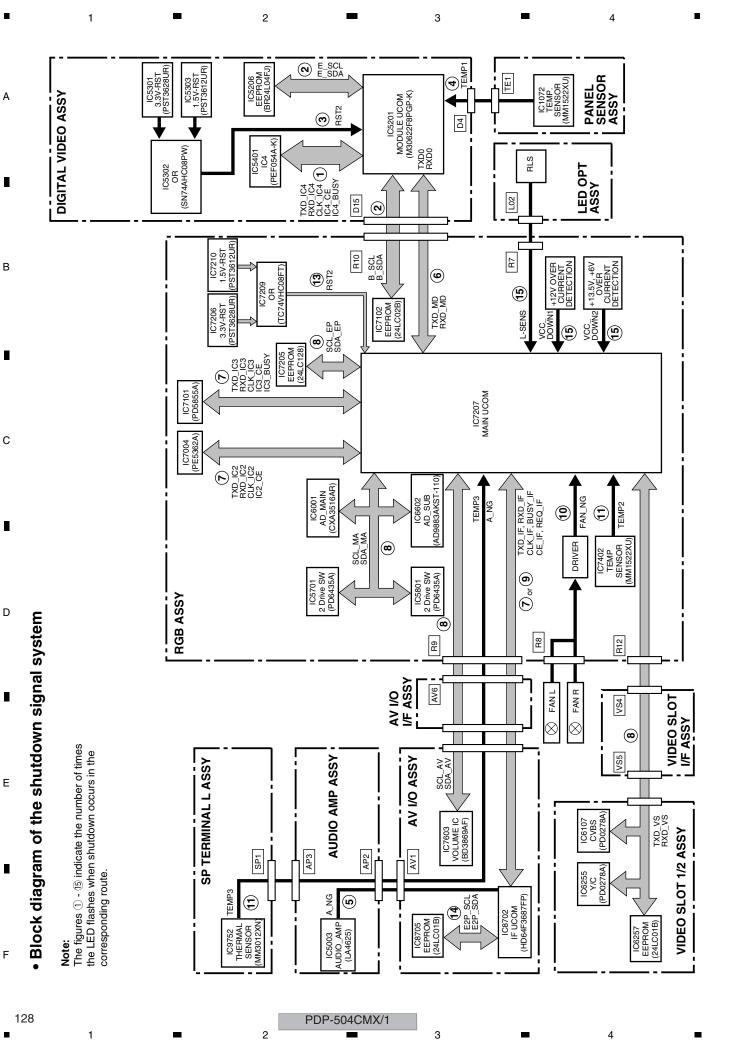
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^{*2:} If 15 times blink of a power-down cannot be specified, the drive processing IC exists. See "4.PANEL PD" on page 98 and "GPD: Power-down information" on page 116.



Diagnosis of shutdown

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	Coltonor of the Colton	Dofooting Ages	Dogge for Chutchin	Dojat to be Chooked	Docoible Defective Bort	Domorfo
-	Communication failure of the			<u>C</u> 4	IC5401, IC5305	
-	panel-drive IC		Writing failure of IC4			After turning the unit on again, check if the data on the version can be read with the GS1 command.
	Communication failure of the	DIGITAL VIDEO	Communication failure of the EEPROM (4k) or defective peripheral circuits	Module Ucom Block	IC5206	
N	module IC (Check the shutdown subcategory on the Factory menu.)	RGB	Communication failure of the EEPROM (2k) or defective peripheral circuits	IC3 Block	IC7102	
			Defective 114-pin FPC	CN400(D15) - CN7101(R10)	ADY1081	Check if the cable is disconnected or not securely connected.
		DIGITAL VIDEO	Defective DC-DC converter	Digital DD Control Block	U5601	Check if 3.3V, 2.5V, and 1.5V are activated (not short-circuited).
က	Power decrease of DIGITAL-DIGITAL VIDEO	DIGITAL VIDEO	Defective RST IC	Panel Flash Block	IC5301,IC5302,IC5303	
	DC-DC	POWER SUPPLY	No startup of 12 V			
-		DIGITAL VIDEO	Disconnection of cable	CN5202 - CN1071		
4	ranel naving ingner temperature		Panel having higher temperature	Surrounding temperature		Temperature detected by a sensor must not exceed 90°C (TEMP1).
	•		Speaker short-circuited	Speaker terminals		Check if the speaker cables are in contact with the chassis, etc.
2	Audio failure	AUDIO AMP	Defective AMP IC	Audio Amp	IC5003	
		AUDIO AMP	Disconnection of cable	CN7601(AV1) - CN5001(AP2)		Check if the cable is disconnected or not securely connected.
	,	DIGITAL VIDEO	Communication failure in the module microcomputer or defective peripheral circuits	Module Ucom Block	105201	Check short/open of the communication line (TXDO/RXDO).
9	Communication failure of the		Failure in writing in the module microcomputer	Module Ucom Block	IC5201	
	module microcomputer		Defective 114-pin FPC	CN4004(D15) - CN7101(R10)	ADY1081	Check if the cable is disconnected or not securely connected.
	,	AV I/O	Communication failure in the IF microcomputer or defective peripheral circuits	IF Ucom Block	IC8702	Check short / open of the communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF)
1	Serial communication failure	RGB	Communication failure in the CELIA or defective peripheral circuits	IC2 Block	IC7004	Check short / open of the communication line (TXD_IC2/RXD_IC2/CLK_IC2/CE_IC2)
`		RGB	Communication failure in the MIKE or defective peripheral circuits	IC3 Block	IC7101	Check short / open of the communication line (TXD_IC3/RXD_IC3/CLK_IC3/BUSY_IC2/CE_IC3)
		RGB	Failure in writing in the MIKE	IC3 Block	IC7101	
		VIDEO SLOT1 or 2	Failure in MICHAEL Y/C or defective peripheral circuits IC1 (Y/C) Block	IC1 (Y/C) Block	IC6255	
	,	VIDEO SLOT1 or 2	Failure in MICHAEL CVBS or defective peripheral circuits IC1 (CVBS) Block	IC1 (CVBS) Block	IC6107	
	1	RGB	Failure in AD MAIN or defective peripheral circuits	Main AD Block	106001	
	1	RGB	Failure in AD SUB or defective peripheral circuits	Sub LPF & AD Block	106602	
0		RGB	Failure in ROZ or defective peripheral circuits	Bus SW1 Block	IC5701	
0		RGB	Failure in ROZ or defective peripheral circuits	Bus SW2 Block	IC5801	
	(Confirm the SD subcategory in the factory menu)	AV I/O	Failure in VOL IC or defective peripheral circuits	AV I/O Assy	IC7603	
	1	RGB	Failure in EEPROM or defective peripheral circuits	Main Ucom Block	IC7205	
		VIDEO SLOT1 or 2	Failure in EEPROM or defective peripheral circuits	IC1 (Y/C) Block	IC6257	
			Defective communication line between any of the above devices and the main microcomputer		IC7207	Check short / open of SCL_AV/SDA_AV, SCL_MA/SDA_MA and SCL_EP/SDA_EP

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	SD Circuit in (Operation	SD Circuit in Operation Defective Assy	Reason for Shutdown	Point to be Checked	Possible Defective Part	Remarks
	9 Communication failure in	ailure in	RGB	Communication failure in main microcomputer or defective peripheral circuits	Main Ucom Block	IC7207	Check short / open of communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF)
	main microcomputer	uter	RGB	Failure in writing in the main microcomputer	Main Ucom Block	IC7207	
•	L		FAN	Failure in the fan motor or fan stopped by attached dust			
_	10 ran tallure		RGB	Disconnection of cable	Relay part between CN7402 (R8) and the wire from the fan		Check if the cable is disconnected or not securely connected.
<u> </u>	Unit having higher	١٤		Use under high temperature	Surrounding/internal		Temperature detected by a sensor must not exceed 65°C (TEMP3) /95°C (TEMP2)
_	I temperature		AUDIO AMP	Disconnection of cable	CN5003(AP3) - CN9702(SP1)		Check if the cable is disconnected or not securely connected.
-	14 Communication failure in IF AV I/O EEPROM	ailure in IF	AV I/O	Communication failure in EEPROM or defective peripheral circuits	I/F Ucom Block	IC8705	Check short / open of E2P_SCL/E2P_SDA
		RLS	RGB	Disconnection of cable	CN9051(L0) - CN7205(R7)		Check if the cable is disconnected or not securely connected.
_	15 Other failures	VCC-D1 RGB	RGB	Defective circuits in the 12V system			Check for shortcircuits in the 12V system.
		VCC-D2 RGB	RGB	Defective circuits in the 13.5V and 6.5V systems.			Check for shortcircuits in the 13.5V and 6.5V systems.

• Diagnosis of abnormalities other than shutdown and power-down

Symptoms	Defective Assy	Abnormal Summary	Point to be Checked	Possible Defective Part	Remarks
		Disconnection of cable	CN7404		Check if the connection between the POWER SUPPLY and RGB assemblies is properly made.
No power (LED unlit)	POWER SUPPLY	STB 3.3 V not started	CN7404(AV1)-11 pin		
	AV I/O	Defective IF microcomputer	IF Ucom Block	IC8702	Check if the oscillation is normal (X8701 = 32 kHz, X8702 = 9.8 MHz) and if RESET is set to H (IC8703).
No power (The LED remains lit in red and does not light in green.)	RGB	Defective main microcomputer	Main Ucom Block	IC7207	If communication with the main microcomputer fails approx. 20 seconds after the AC power is on, the main microcomputer may be defective.
Key input not effective		Disconnection of cable	CN4801 - CN9002 CN9001 - CN8702		Check if the cables are not connected or securely connected.
:		Disconnection of cable	CN4901 - CN8901		Check if the cable is not connected or securely connected.
Hemote control unit not effective	IR RECEIVE	Defective IR receiver section	Н	U4901	Oheck if a pulse is output when the key corresponding to Pin 3 of the CN4901 is pressed.
tanto do escal proposo lombondo	DIGITAL VIDEO	Defective IC4	IC4 Block	IC5401	Check if an abnormal area in the screen changes when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
Abronina Screen (Data of every other dot are abnormal)	ADDRESS				Check that an abnormal area in the screen does not change when the FPC connected to the address corresponding to the abnormal area is replaced with the one corresponding to the next address.
		Defective 114-pin FPC	CN7101 - CN5001	ADY1081	Check if the FPC is broken or not securely connected.

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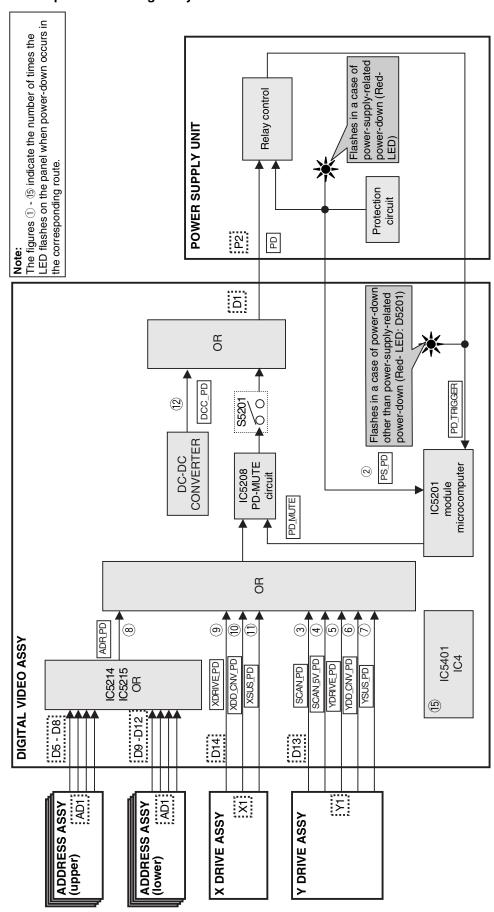
PDP-504CMX/1

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• Block diagram of the power-down signal system

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OCP: Over Current Protection

UVP: Under Voltage Protection

OVP: Over Voltage Protection

Note: 50 (43) *** Assy means (50 *** Assy or 43 *** Assy.)

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• Power-down diagnosis (defective points)

2 POWER	POWER SUPPLY Unit				If the elapsed time from relay-on until the LED in the power supply unit lights is about 2-4 seconds, the defective assembly may be the 50 (43) X or Y DRIVE.
	50 (43) X DRIVE Assy	VSUS UVP	X SUS BLOCK	IC1203, IC1207 (mask module)	
	50 (43) Y DRIVE Assy	VSUS UVP	Y SUS BLOCK	IC2303, IC2307 (mask module)	
0		VH UVP	SCAN IC	SCAN IC	
3 SCAN	50 (43) SCAN A, B	VH UVP	VH DC/DC	IC2401, IC2402, IC2410, L2401	
	or 50 (43) Y DRIVE	VH OVP	VH DC/DC	IC2402, IC2410	
		Disconnection of cable detected	CN2001, CN2301		
	50 (43) SCAN A. B	Disconnection of cable detected	letected CN2101, CN2102, CN2301		
4 SCN-5V	Assy or 50 (43) Y DRIVE	ICSV UVP	SCAN IC, IC5V DC/DC Y SUS BLOCK	SCAN IC, Q2401, Q2402, IC2304,	
	Assy	IC5V OVP	IC5V DC/DC	IC2403, IC2411	
5 Y-DRIVE	50 (43) Y DRIVE Assy	+16.5V OCP	Y SUS BLOCK	IC2303, IC2307 (mask module), IC2301, IC2304, IC2305, R2332	
	C	VOFS UVP	VOFS DC/DC	IC2404, IC2412, Q2404, Q2407, Q2312	
o I-DCDC	50 (43) Y DRIVE ASSY	VOFS OVP	VOFS DC/DC	IC2404, IC2412	
7 Y-SUS	50 (43) Y DRIVE Assy	Power-down caused by detection of middle-point voltage	Y RESONANCE BLOCK	Q2202, Q2203, Q2214, Q2205, Q2206, Q2208, Q2209, Q2212, IC2201, IC2202, D2201, D2201, D2225, D2230, Control signal series resistors	
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Disconnection of cable detected	CN1501		
8 ADRS	50 (43) AUDRESS	Power-down caused by detection of a power surge	ADR RESONANCE BLOCK	R1631, Q1601, D1602	
		Disconnection of cable detected	CN1001, CN1201		
9 X-DRIVE	50 (43) X DRIVE Assy	+16.5V OCP	X SUS BLOCK	IC1203, IC1207 (mask module), IC1204, IC1206, R1230, IC1205	
		VRN OCP	X SUS BLOCK	Q1205, R1226, R1251	
		VRN OVP	VRN DC/DC	IC1403, IC1404	
10 X-DCDC	50 (43) X DRIVE Assy		VRN DC/DC	IC1402, IC1403, IC1404	
			X SUS BLOCK	Q1205, R1226, R1251	
11 X-SUS	50 (43) X DRIVE Assy	Power-down caused by detection of middle-point voltage	voltage X RESONANCE BLOCK	Q1102, Q1103, Q1114, Q1105, Q1108, Q1109, Q1111, Q1112, IC1101, IC1102, D1103, D1113, D1118, D1125, D1129, D1130, Control signal series resistors	
12 DIG-DCDC	: DIGITAL VIDEO Assy	DCDC +3.3V, +1.5V OVP	DC DC CONVERTER BLOCK	U5602 (DC DC CONVERTER Module)	
15 1C4	TOTAL INTICIO				

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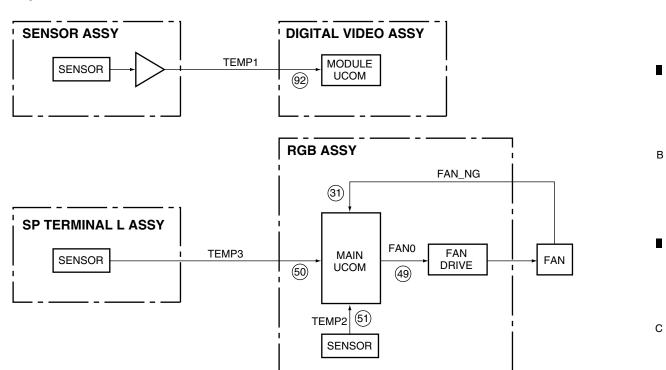
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7.1.3 PROCESSING AT THE TIME OF ABNORMALITIES

Fan and temperature sensor

Circuitry



Port monitoring specifications

Port Name	Shutdown Name	Assign	Control Microcomputer	Active	Remarks
FAN_NG	FAN	31	Main	Shutdown when the signal becomes high	Disconnection of the fan connector or abnormality in operation of the fan detected
TEMP1	Unit under high temperature	92			Monitoring high temperature of the panel, Drive system temperature compensation
TEMP2	Unit under high temperature	51	Main	the set value is exceeded	Monitoring high temperature of boards
TEMP3	Unit under high temperature	50	Main		Monitoring ambient temperature

7.1.4 TEMPERATURE COMPENSATION OF DRIVE SYSTEM VOLTAGE

Function: To control the DRIVE-system voltage according to the temperature (Temperature compensation functions such that the voltage is lowered on the lower-temperature side and the voltage becomes higher on the higher-temperature side.)

Purpose: For improving the yield by compensating for the temperature characteristics of the panel

Note: • Temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage. This compensation is controlled by the software.

• Temperature compensation is carried out with the value of TEMP1.

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7.1.5 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: Only the power for the low voltage lines (16 V, 12 V, and 6.5 V) is on, and the power for the high voltage lines (VSUS, VADR) is off.

Usage: 1. Use when only an operational check for the low voltage lines is required, such as when making repairs.

2. Use when rewriting of a program for each microcomputer is required.

Methods: 1 Set the slide switch (S5201) on the DIGITAL VIDEO Assy to its upper position ("DRF" is mentioned on the board see Fig. below).

- 2. Send the "DRF" RS232C command to turn the large-signal system off.
- 3. Send the "DRN" RS232C command to turn the large-signal system on.

Notes:

- As the unit enters Power-Down and Muting On mode when Methods 1 and 2 are performed, and power-downs other than those caused by the power (PS_PD) and DC-DC-converter (DIGITAL_DC-DC) circuits are not activated.
- If the slide switch is set from OFF to ON while the power is on, a power-down will occur. Be sure to turn the power off before switching the slide switch.
- Although the "DRF" RS232C command is enabled during Standby, if the power is turned on then turned off, the unit will return to "DRN" mode.

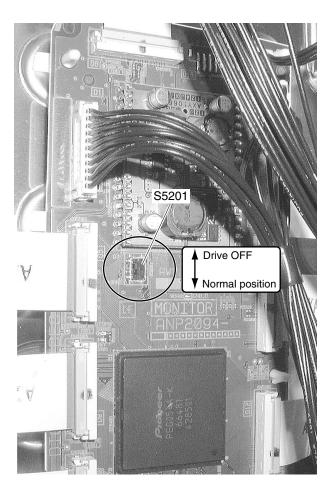


Fig. Drive OFF switch

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7.1.6 BACKUP THE ADJUSTMENT VALUES FOR THE MAIN UNIT

Outline

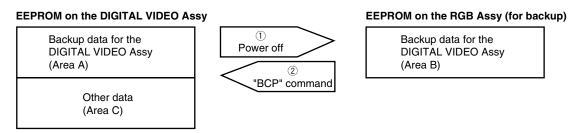
The data on the adjustment values for the main unit are stored in an EEPROM (IC5206, 4 kbits) on the DIGITAL VIDEO Assy. Part of the data (area A in the figure below) are automatically copied to an EEPROM (IC7102, 2 kbits) mounted on the RGB Assy for backup. When the DIGITAL VIDEO Assy is replaced, the backup data on the adjustment values for the main unit stored in the RGB Assy can be copied to the new DIGITAL VIDEO Assy, thus enabling you to omit newly performing adjustments on the main unit. The logs for the product (power-down log, etc.) can also be copied.

■ Data to be backed up in the digital EEPROM (area A)

- Margin adjustment values (Vsus, Vofset)
- Power upper-limit adjustment value (ABL)
- PANEL white-balance adjustment values (PANEL-R HIGH, PANEL-G HIGH, PANEL-B HIGH, PANEL-R LOW, PANEL-G LOW, PANEL-B LOW)
- Drive waveform adjustment values (X-SUS-U1, X-SUS-U2, X-SUS-D1, X-SUS-D2, Y-SUS-U1, Y-SUS-U2, Y-SUS-D1, Y-SUS-D2, Y-SUS-D3, Y-SUS-D4)
- · Hour meter
- · Pulse meter
- Number of times the power has been turned on
- PD/SD logs

Basic flow of automatic backup

Using a keyword, the data in areas A and B are judged as to whether they have been adjusted or not, then copying is performed.

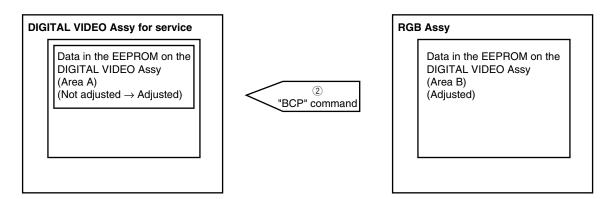


- ① The keyword on the DIGITAL VIDEO Assy is checked when the power is turned off, and if it is "adjusted", automatic backup is performed.
- ② If the keyword on the RGB Assy (Area B) is "adjusted," copying can be performed with the "BCP" RS232C command.

Actual automatic backup operations

1. When the DIGITAL VIDEO Assy is replaced with an Assy for service

Changing of keywords is not required. Replace the DIGITAL VIDEO Assy with an Assy for service, and send the "BCP" RS232C command. Thus, the backup data in the EEPROM on the RGB Assy are copied to the EEPROM on the DIGITAL VIDEO Assy for service.



2. When a repaired DIGITAL VIDEO Assy is mounted on another unit (reuse of the repaired DIGITAL VIDEO Assy)
The keyword of the DIGITAL VIDEO Assy to be reused must be changed to "not adjusted" using the "UAJ" RS232C command.

Note 1: If a repaired DIGITAL VIDEO Assy is mounted in another unit (Unit 2) without this change of keyword, and the power to the unit 2 is turned off, the data in force before the repair of the DIGITAL VIDEO Assy will be copied to Area B of the RGB Assy of Unit 2, overwriting the data necessary for Unit 2. Once overwritten, the original data will not be restored.

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- 3. When a repaired DIGITAL VIDEO Assy is mounted on the original unit (reuse of the repaired DIGITAL VIDEO Assy) Changing of keywords is not required. After the repaired DIGITAL VIDEO Assy is mounted in the original unit, the unit can operate with its latest adjustment values.
- 4. When both the DIGITAL VIDEO Assy and RGB Assy are simultaneously replaced with other assemblies The automatic backup function of this unit will not work properly.
- Note 2: Readjustment of the main unit is required.
- Note 3: After readjustment of the main unit, send the "FAJ" RS232C command to change the keyword of the DIGITAL VIDEO Assy to "adjusted." Thus, when the unit is turned off, automatic backup of adjustment data is performed properly.
 - Note 4: If readjustment of the main unit is totally impossible, it can be omitted by installing the EEPROM (IC5206, 4 kbits) originally mounted on the DIGITAL VIDEO Assy for service.
 - Note 5: After copying the backup data, turn the power off then back on to reflect the copied backup data.

Miscellaneous

If the white balance (W/B) value is largely shifted because of aging, etc., W/B adjustment is required. (As this may be a rare case, the adjustment procedures are described below, just for your reference.

[W/B-adjustment procedures]

The W/B adjustment can be performed with the RS232C commands. Minolta CA-100 color difference meter are required.

- ① Send the "FAY" RS232C command to enter Factory mode.
- ② Set the keyword for the DIGITAL VIDEO Assy to "not adjusted" with the "UAJ" RS232C command.
- ③ Obtain the current adjustment values in the two adjustment tables (see "6.6 Command Description").
 - Shifting to Table 1: Send the "M51" and "F60" commands. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "M51" and "F75" commands. Obtaining the adjustment values: Send the "GPW" command.
- 4 For each table, set the brightness.
 - Adjustment in Table 1: After sending the "F60" command, perform adjustment.
 - Adjustment in Table 2: After sending the "F75" command, perform adjustment.

For each table, change the RGB parameters so that the values measured using a Minolta color difference meter (CA-100) become as indicated below. In this case, any one of PRH, PGH, or PBH must be set to 256.

	Cd/mm	"F
х	285	"F
У	289	"F

"PRH***" : 000 - 511 "PGH***" : 000 - 511 "PBH***" : 000 - 511

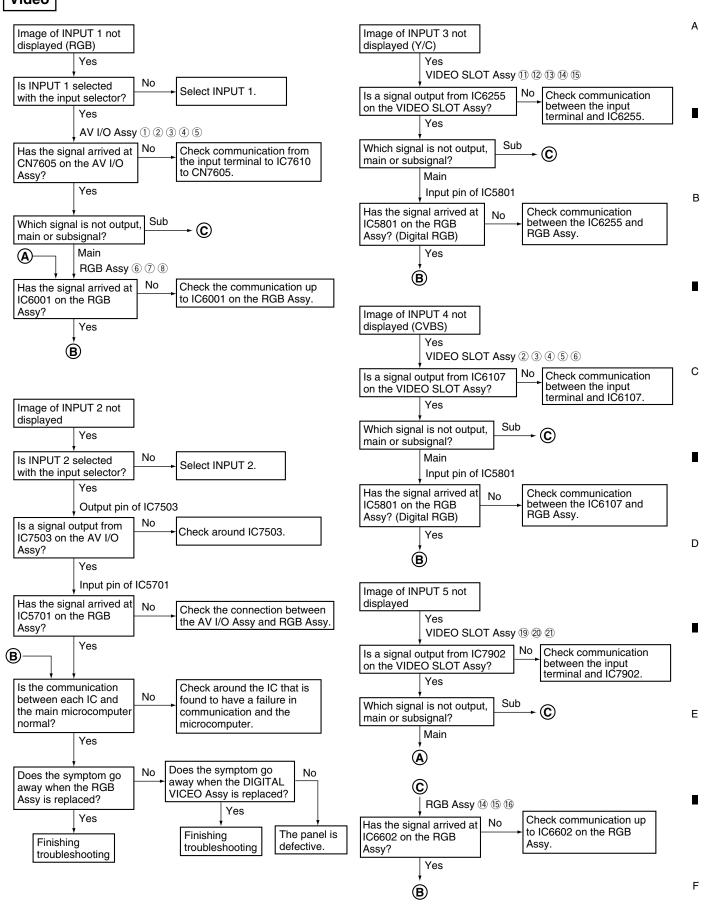
- 5 Check after adjustment
 - Shifting to Table 1: Send the "F60" command. Obtaining the adjustment values: Send the "GPW" command.
 - Shifting to Table 2: Send the "F75" command. Obtaining the adjustment values: Send the "GPW" command. Check that the adjustment data have been changed.
- 6 Change the keyword for the DIGITAL VIDEO Assy to "adjusted" by sending the "FAJ" RS232C command. Note: Use a Minolta CA-100 color difference meter or the equivalent for measurement. Otherwise, the specifications of the product cannot be assured.
- Send the "FAN" RS232C command to enter Normal mode.
 - If the value is different from that you set, readjust it.

Note: To reset the adjustment to its original value, send the "BCP" RS232C command then turn the power off then back on to retrieve the backup data.

• The setting values for color temperature differ between Factory mode and Normal mode. Therefore, the setting value for color-difference signals in Normal mode are different from those in Factory mode, even after the White Balance adjustment has been performed.

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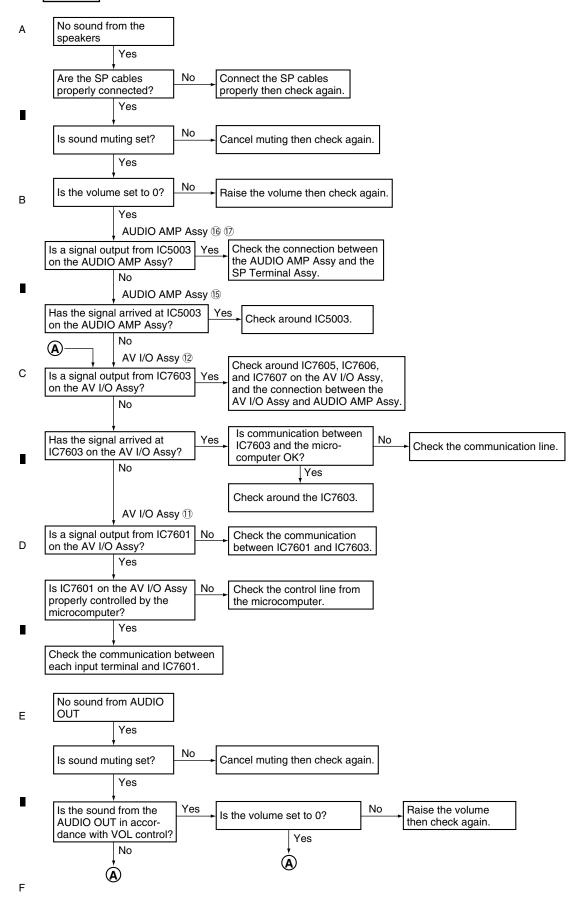
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Audio



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PDP-504CMX/1

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• PDP-504CMX model

1 Rear Case, Front Case

1 Remove the grip by removing the four screws.

Note

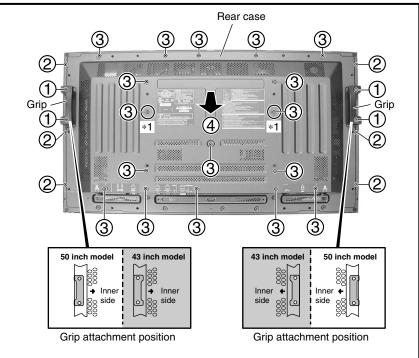
When reattaching the grip, be sure to securely tighten the screws.

- 2 Remove the six screws.
- (3) Remove the seventeen screws.

Note:

When reattaching the rear case, first attach the screws for the holes indicated with $\ast 1$ to place the rear case in the correct position.

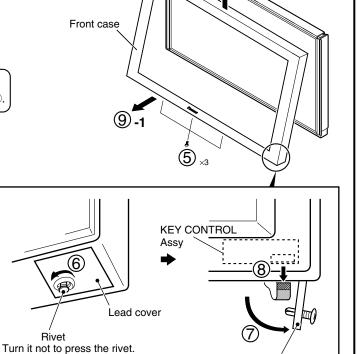
(4) Remove the rear case.



- (5) Remove the three screws.
- (6) Remove the one rivet.
- (7) Remove the lead cover.
- 8 Disconnect the flexible cable.
- (9) Remove the front case.

Note:

If only the front case must be removed, without removing the rear case, perform the steps ⑤ to ⑨.



(Because when the rivet presses, fit in once again.) Lead cover



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2 Multi Base Section

Diagnosis of AV I/O Assy

- $oldsymbol{(1)}$ Remove the three nuts.
- (2) Remove the six hexagon head screws.
- (3) Remove the one screw.
- (4) Remove the one pin grommet.
- (5) Remove the AV I/O Assy with the AV I/O I/F Assy.
- (6) Remove the AV I/O Assy from the AV I/O I/F Assy.
- (7) Connect the AV I/O Assy to slot of the RGB Assy.

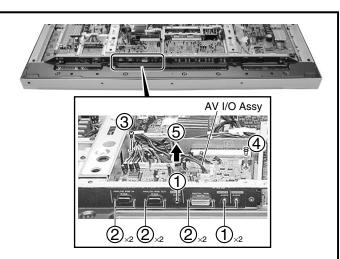


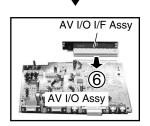
Note:

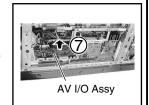
В

The cooling fan may rotate during diagnosis, in the following cases:

- When the rotation speed of the fan has been set to maximum for Integrator mode
- When the ambient temperature surrounding the temperature sensor is about 35°C or higher





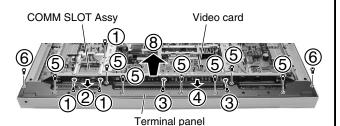


Removing Multi Base Section

- (1) Remove the one screw and two Torque screws.
- (2) Remove the COMM SLOT Assy.
- $\widehat{\mathbf{3}}$ Remove the two Torque screws.
- (4) Remove the video card (option).
- (5) Remove the seven screws.
- (6) Remove the two screws.
- (7) Disconnect the some connectors at need.
- (8) Remove the terminal panel.
- (9) Remove the two screws.
- (10) Disconnect the some connectors at need.
- (1) Remove the multi base section.

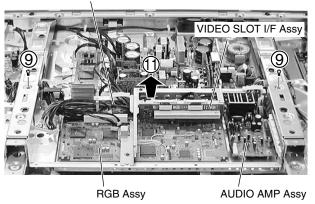
Note:

Some tiny metal shavings may be released from the paring screw section when the VIDEO SLOT I/F Assy is detached from the sheet metal and is reattached to it. Be sure to clear away any shavings or other foreign matter before reattaching it to the RGB





Multi base section



Ε

■ X CONNECTOR A and B Assy

(1) Remove the enclosure sheet 1.

Note: -

Enclosure sheet 1 is attached to comply with the safety standards. Make sure that it will not be shifted or peeled off. If it is peeled off, securely reattach it in its original place.

- \bigcirc Remove the jumper wire by removing the flat clamp.
- (3) Remove the one nyron rivet.
- (4) Remove the one screw.

Note:

Be sure to remove this screw. If you don't, the connector on the LED OPT Assy may be damaged.

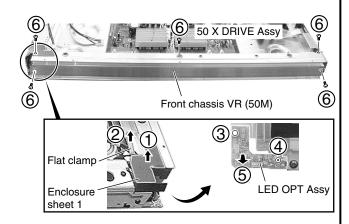
- (5) Remove the LED OPT Assy.
- Remove the front chassis VR (50M) by removing the five screws.
- (7) Remove the seven screws.
- (8) Remove the two spacers.
- (9) Remove the X CONNECTOR A and B Assy.

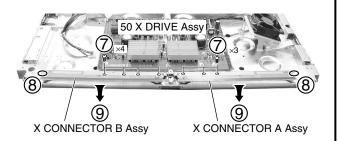
Note when reassembling the front chassis VR (50M)

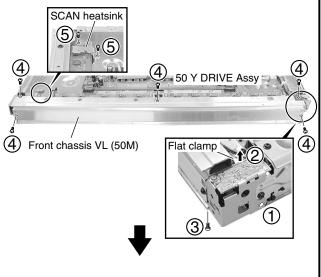
Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.

50 SCAN A and B Assy

- (1) Remove the one nylon rivet.
- (2) Remove the jumper wire by removing the flat clamp.
- (3) Remove the one screw.
- Remove the front chassis VL (50M) by removing the five screws.
- (5) Remove the SCAN heatsink by removing the two screws.



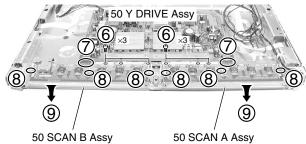




- (6) Remove the six screws.
- (7) Disconnect the two pin connectors.
- (8) Remove the six spacers.
- (9) Remove the 50 SCAN A and B Assy.

Note when reassembling the front chassis VL (50M)

Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.



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•PDP434cmx model

1 Rear Case, Front Case

Remove the grip by removing the four screws.

Note

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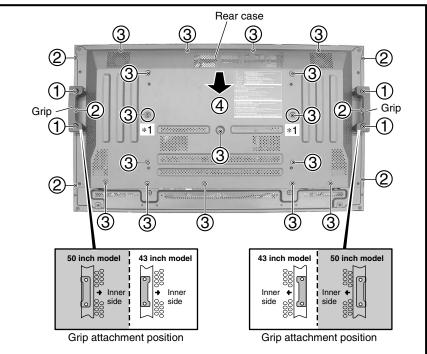
When reattaching the grip, be sure to securely tighten the screws.

- 2 Remove the six screws.
- Remove the sixteen screws.

Note:

When reattaching the rear case, first attach the screws for the holes indicated with *1 to place the rear case in the correct position.

(4) Remove the rear case.



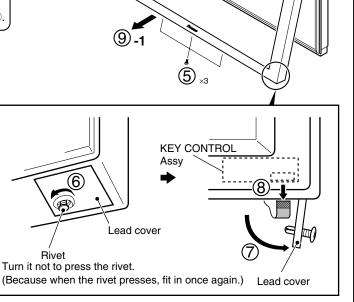
Front case

(5) Remove the three screws.

- (6) Remove the one rivet.
- $\overline{7}$ Remove the lead cover.
- 8 Disconnect the flexible cable.
- (9) Remove the front case.

Note:

If only the front case must be removed, without removing the rear case, perform the steps (5) to (9).





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Diagnosis of AV I/O Assy

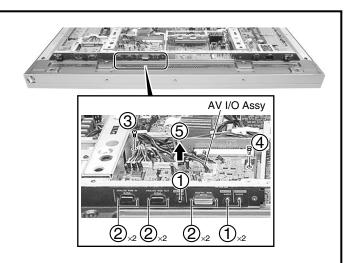
- (1) Remove the three nuts.
- 2 Remove the six hexagon head screws.
- Remove the one screw.
- (4) Remove the one pin grommet.
- (5) Remove the AV I/O Assy with the AV I/O I/F Assy.
- 6 Remove the AV I/O Assy from the AV I/O I/F Assy.
- $\overline{7}$ Connect the AV I/O Assy to slot of the RGB Assy.

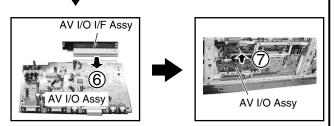


Note:

The cooling fan may rotate during diagnosis, in the following cases:

- When the rotation speed of the fan has been set to maximum for Integrator mode
- When the ambient temperature surrounding the temperature sensor is about 35°C or higher



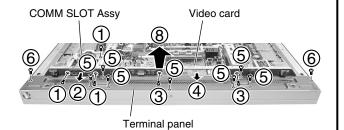


Removing Multi Base Section

- (1) Remove the one screw and two Torque screws.
- (2) Remove the COMM SLOT Assy.
- (3) Remove the two Torque screws.
- (4) Remove the video card (option).
- (5) Remove the seven screws.
- (6) Remove the two screws.
- 7 Disconnect the some connectors at need.
- 8 Remove the terminal panel.
- (9) Remove the two screws.
- (10) Disconnect the some connectors at need.
- (1) Remove the multi base section.

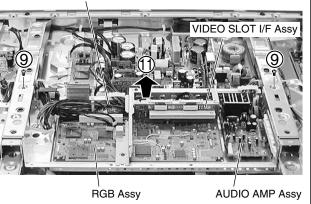
Note:

Some tiny metal shavings may be released from the paring screw section when the VIDEO SLOT I/F Assy is detached from the sheet metal and is reattached to it. Be sure to clear away any shavings or other foreign matter before reattaching it to the RGB Assy.





Multi base section



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■ X CONNECTOR A and B Assy

(1) Remove the enclosure sheet 1.

Note: -

Enclosure sheet 1 is attached to comply with the safety standards. Make sure that it will not be shifted or peeled off. If it is peeled off, securely reattach it in its original place.

- \bigcirc Remove the jumper wire by removing the flat clamp.
- (3) Remove the one nyron rivet.
- (4) Remove the one screw.

Note:

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Be sure to remove this screw. If you don't, the connector on the LED OPT Assy may be damaged.

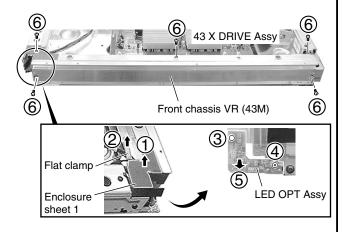
- (5) Remove the LED OPT Assy.
- Remove the front chassis VR (43M) by removing the five screws.
- (7) Remove the seven screws.
- (8) Remove the two spacers.
- 9 Remove the X CONNECTOR A and B Assy.

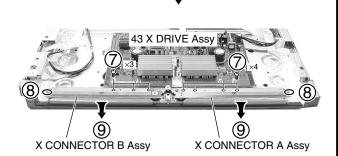
Note when reassembling the front chassis VR (43M)

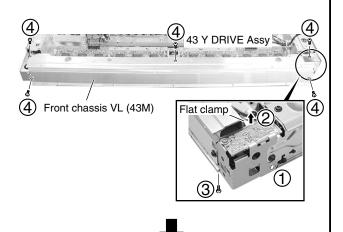
Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.

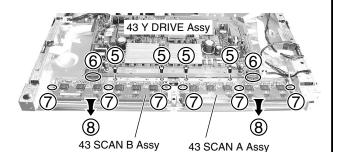
43 SCAN A and B Assy

- (1) Remove the one nylon rivet.
- (2) Remove the jumper wire by removing the flat clamp.
- (3) Remove the one screw.
- Remove the front chassis VL (43M) by removing the five screws.









(5) Remove the four screws.

- 6 Disconnect the two pin connectors.
- (7) Remove the six spacers.
- (8) Remove the 43 SCAN A and B Assy.

Note when reassembling the front chassis VL (43M)

Remove or loosen the screws that secure the panel holder in order not to damage the front protect panel Assy.

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7.2 IC INFORMATIION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

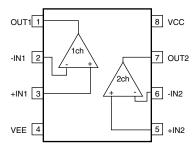
List of IC

BA10393F, BA10358F, STK795-512A, STK795-513A, STK795-510, STK795-511, AN16021AA-K, SN755866PZP, MBM29PL160BD-75PFTN, M30622F8PGP-K, PEG054A-K, AN5870SB, AD9883AKST-110, SM5301BS, BA7078AF, IC42S32200-7TG-K, MBM29PL3200BE70PFV, CXA3516AR, SII1161CTU-K, LA4625

■ BA10393F (50 X DRIVE ASSY : IC1103) , (43 X DRIVE ASSY : IC1103) (50 Y DRIVE ASSY : IC2211) , (43 Y DRIVE ASSY : IC2211)

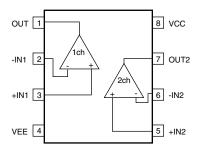
6

- Comparator IC
- Pin Arrangement (Top View) / Block Diagram



■ BA10358F (50 Y DRIVE ASSY : IC2406), (43 Y DRIVE ASSY : IC2406)

- Ope-Amp. IC
- Pin Arrangement (Top View) / Block Diagram



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■ STK795-512A (50 X DRIVE ASSY: IC1203, IC1207)

PDP Mask Module IC

Block Diagram

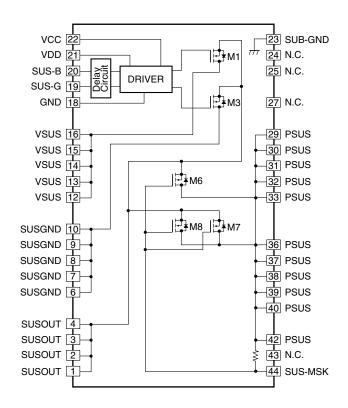
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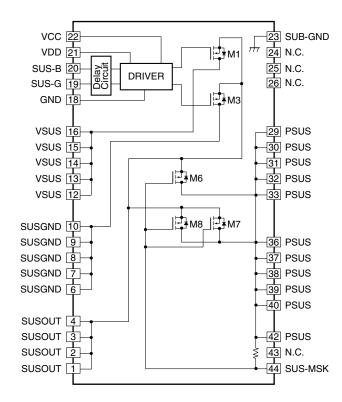


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■ STK795-513A (50 Y DRIVE ASSY: IC2303, IC2307)

PDP Mask Module IC

Block Diagram



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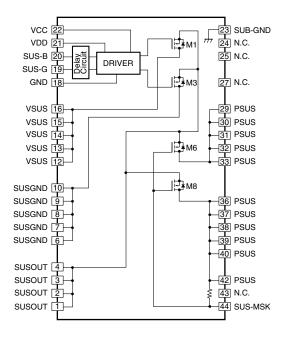
■ STK795-510 (43 X DRIVE ASSY: IC1203, IC1207)

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• PDP Mask Module IC

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Block Diagram

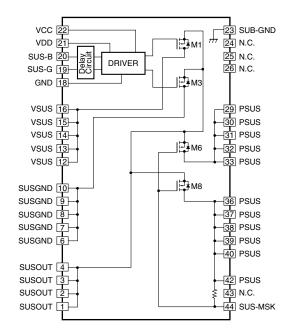


■ STK795-511 (43 Y DRIVE ASSY: IC2303, IC2307)

• PDP Mask Module IC

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Block Diagram



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■ AN16021AA-K (50 SCAN A ASSY : IC3001 - IC3006) (50 SCAN B ASSY : IC3201 - IC3206)

Mod Ucom

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• Pin Arrangement (Top view)

		OUT2	OUTI	NC	V	Voor	บ่ Z	GND	GND	ICLR	SI	20	ت اة	ממא	Ϋ́	CLK	တ္မ	띪	GND	QNO	ن ح	VDDIN	N _{DDH}	Ŋ.	OUT64	ООТЕЗ	I	
			-		_	_	_	-	\vdash			-	-		_	-	-	{	-		_	_	_	_		_		l
OUT3	١,	8	S)	8	2	8	6	2	ß	18	6	8	2	20	8	8	80	핆	8	22	æ	욻	8	2	17	76	75	OUT62
OUT4	<u> </u>																										74	OUT61
OUT5	<u> </u>																										73	00160
OUT6	14																										72	OUT59
OUT7	5																										71	OUTS
OUTS	T-6																										70	QUT57
OUT9	T,																										69	OUT56
OUT10	1 8																										68	OUT55
OUTII	— 9																										67	OUT54
OUT12	10																										66	OUT53
OUT13	11																										65	OUT52
OUT14	12																										64	OUT51
OUT15	13																										63	OUT50
OUT16	14																										62	OUT49
OUT17	15																										61	OUT48
OUT18	16																										60	OUT47
OUT19	17																										59	OUT46
OUT20	18																										58	OUT45
OU721	19																										57	OUT44
OUT22	20																										56	<u>O</u> UT43
OUT23	21																										55	OUT42
OUT24	22																										54	OUT41
OUT25	23																										53	OUT40
OUT26	24																										52	OUT39
OUT2 <u>7</u>	25																										51	OUT38
		26	27	28	શ	8	31	32	3	34	\S	8	37	38	2	8	4	42	45	4	5	46	4	48	4	જ		
		28	8	٥	=	12	Ö	Ŧ	Ä	ri	۵	۵	Ω		۵	اه	Δ	61	Ħ	Ĭ		5	Ā	2	9	17	-	,
		OUT28	OUT29	00.170	OUT31	OUT32	Z	V	V DOH	z Z	GNS	GNB	GND	GND	3	GND	QNS OND	ž	VnoH	N _{DOH}	ان	OUT33	PCTTO PCTTO	OUT35	OUT36	7ETUO		

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● Pin Function (1/2)

Pin No.	Pin Name	Туре	Discription	
1	OUT3			,
2	OUT4			
3	OUT5			
4	OUT6			
5	OUT7			
6	OUT8			
7	OUT9			
8	OUT10			
9	OUT11			
10	OUT12			
11	OUT13			
12	OUT14			
13	OUT15			ı
14	OUT16			
15	OUT17	Output	High voltage push pull output nin	
		Output	High-voltage push-pull output pin	
16	OUT18			
17	OUT19			
18	OUT20			I
19	OUT21			
20	OUT22			
21	OUT23			
22	OUT24			
23	OUT25			
24	OUT26			(
25	OUT27			
26	OUT28			
27	OUT29			
28	OUT30			
29	OUT31			_
30	OUT32			
31	NC	-	Not connected	
32	VDDH	Supply	High-voltage circuit supply pin	
33	VDDH	Supply	High-voltage circuit supply pin	
34	NC	-	Not connected	
35	GND			
36	GND			
37	GND			
38	GND	Ground	GND pin	
39	GND			
40	GND			
41	GND			
42	NC	-	Not connected	
43	VDDH	Supply	High-voltage circuit supply pin	
44	VDDH	Supply	High-voltage circuit supply pin	
45	NC		Not connected	
46	OUT33			
47	OUT34			E
48	OUT35			_
49	OUT36			
50	OUT37			
51	OUT38			
52	OUT39	Output	High-voltage push-pull output pin	
53	OUT40	Carpar	g ranaga paan pan aaspat pili	F
54	OUT41			-
55	OUT42			
56	OUT42			
57	OUT44			
58	OUT44 OUT45			
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● Pin Function (2/2)

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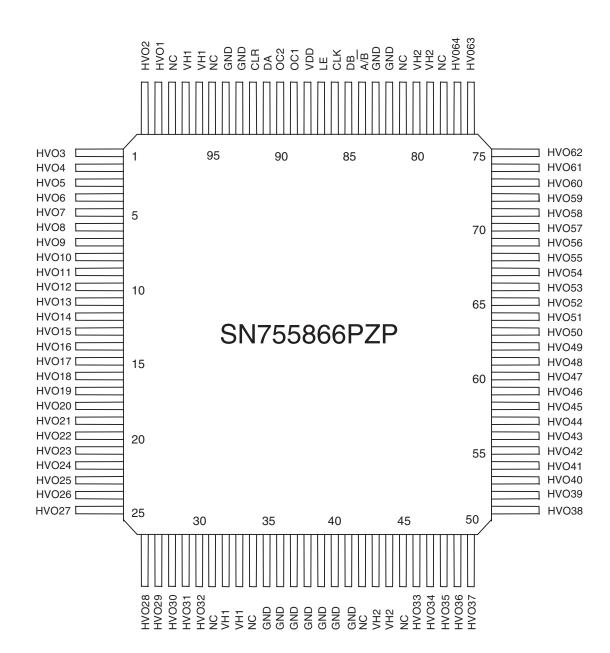
	Pin No.	Pin Name	Туре	Discription	
	59	OUT46			
	60	OUT47			
	61	OUT48			
	62	OUT49			
	63	OUT50	•		
	64	OUT51			
	65	OUT52			
	66	OUT53			
	67	OUT54			
	68	OUT55	Output	High-voltage push-pull output pin	
	69	OUT56			
}	70	OUT57			
	71	OUT58			
	72	OUT59			
	73	OUT60			
	74	OUT61			
	75	OUT62			
	76	OUT63			
	77	OUT64			
	78	NC	-	Not connected	
	79	DDDH	Supply	High-voltage circuit supply pin	
	80	DDDH	Supply	High-voltage circuit supply pin	
	81	NC	-	Not connected	
;	82	GND	Ground	GND pin	
	83	GND	Ground	GND pin	
				Setup pin of sift register sift direction	
	84	DIR	Input	L: Shift into reverse (SO → SI)	
			-	H: Shift forward (SI → SO)	
1	85	SO	Input	Serial data input/output pin	
	86	CLK	Input	Serial clock input pin	
			-	Fetch SI or SO data to sift register by CLK rise edge	
				LAT data input pin	
)	87	LAT	Input	L: Transfer shft register data to output latch	
,				H: Hold data to output latch	
	88	VDD	Supply	Logic supply pin	
			- Capp.)	209.0 00447, 4	
					OC1 OC2 OUT
	89	OC1		Output control pin	L L ALL Hi-Z
			Input	Control output according to the right truth value table	L H DATA
					H L ALL L
	90	OC2			H H ALL H
	0.1	01	C	hand/Outra 40 mint data in a 17 h h	
	91	SI	SI	Input/OutputSerial data input/output pin	
	92	CLR		All output reset pin	
	92	CLN		CLR pin: L → Normal operation	
				CLR pin: H → All output High	
	93	GND	Ground	GND pin	
	93	GND	Ground	GND pin	
	95	NC	-	Not connected	
•	96	VDDH	Supply	High-voltage circuit supply pin	
	97	VDDH	Supply	High-voltage circuit supply pin	
	98	NC	-	Not connected	
	99	OUT1	Output	High-voltage push-pull output pin	
	100	OUT2	Output	High-voltage push-pull output pin	
		· -	- Carpar	g situaga paati pan aarbat piii	

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- Mod Ucom
- Pin Arrangement (Top view)

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Block Diagram

OC1 OC2 Α LE VH1 В CLK (Selector HVO1 32 DA GND 64bit Shift Register CLR (С 64bit Latch VH A/\overline{B} Selector HVO33 64 D DB GND

GND

VDD

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• Pin Function

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Pin Name	No.	I/O	Function
CLK	86	I	Shift clock.
DA	91	1/0	Serial data input/output of Sift register pin.
DB	85	I/O	Serial data input/output of Sift register pin.
CLR	92	I	"H" level: sift register contents of "L" level.
LE	87	I	"L" level: Slew, "H" level: Larch
A/B	84	I	Setup pin of sift register sift direction.
OC1	89	I	HVO Output control pin.
OC2	90	I	HVO Output control pin.
HVO	99,100,1-30	0	High-voltage drive output. (HVO1 - HVO64)
	46-77		
VDD	88	-	Logic power supply.
GND	35-41,82-83	-	Reference potential 0V (HVO diode anode)
	93-94		
VH1	32,33,96,97	-	HVO1 - 32 High voltage circuit power supply (HVO diode cathode).
VH2	43,44,79,80	-	HVO33 - 64 High voltage circuit power supply (HVO diode cathode).
NC	31,34,41,45	-	NC win
	78 81 95 98		NC pin

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■ MBM29PL160BD-75PFTN (DIGITAL VIDEO ASSY : IC5305)

• Flash Memory IC

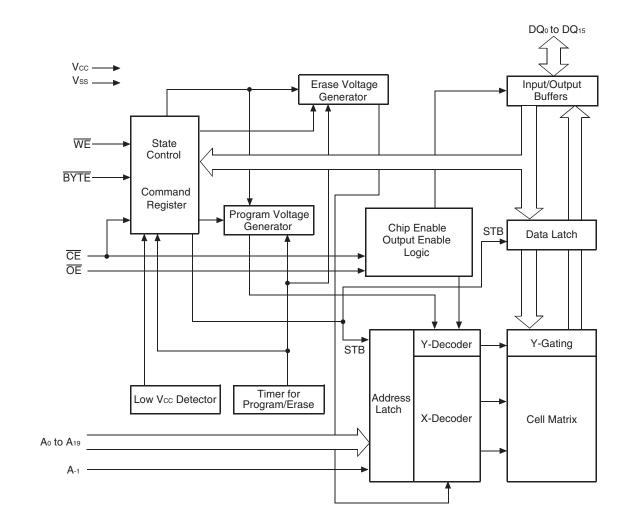
Block Diagram

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PDP-504CMX/1

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■ M30622F8PGP-K (DIGITAL VIDEO ASSY : IC5201)

• PDP UCOM

● Pin Function (1/2)

No.	Pin Name	Function	I/O	ACTIVE
1	VSUS	[D/A] Vofs power control	0	
2	VOFS	[D/A] Vofs power control	0	
3	TXD_IC4	3 serial communication with IC4MANTA - data transmission	0	
4	RXD_IC4	3 serial communication with IC4MANTA - data receive	Ī	
5	CLK_IC4	3 serial communication with IC4MANTA - clock output	0	
6	BYTE	(GND connection)		
7	CNVSS	Pin for processor mode setting (pull-down)	<u>.</u>	
8	NC	NC pin	·	
9	NC	NC pin		
10	RST_MD	Reset input	1	L
11	XOUT	Output for main clock	0	
12	VSS	GND		_
13	XIN	Input for main clock		
14	VCC1	Power supply = STB3.3V		
15	NMI	(pull-up)		
16	REM_B	(Interruption) Remote control signal input (in the panel unit)	<u>'</u>	
17	KEY_B	(Interruption) Key signal input (in the panel unit)	<u> </u>	
	RST2			1
18		(Interruption) IC4 reset detection	<u>'</u>	L
19	HD_IN_B	HD signal existence distinction		<u> </u>
20	PD_MUTE	Mute the power down output to the POWER SUPPLY Unit	<u> </u>	L L
21	PS_PD	PD signal in the POWER SUPPLY Unit	!	H
22	DCC_PD	PD signal of DC-DC converter		H
23	NC	NC pin		
24	NC	NC pin		
25	VD_IN	V. frequency count		L
26	EEPRST	EEPROM power SW	0	Н
27	E_SCL	IIC clock output for EEPROM	0	
28	E_SDA	IIC data I/O for EEPROM	I/O	
29	TXD	Communication with flash ROM writer - data transmission	0	
30	RXD	Communication with flash ROM writer - data receive	<u> </u>	
31	SCLK	Communication with flash ROM writer - clock input	I	
32	BUSY	Communication with flash ROM writer - busy output	0	
33	TXD0	UART communication with main UCOM (external PC) - data transmission	0	
34	RXD0	UART communication with main UCOM (external PC) - data receive	Į	
35	NC	NC pin		
36	REQ_MD	Communication request to the main UCOM	0	Н
37	PSW_D	Mute of DC-DC converter	0	Н
38	WE_IC4	In IC4 (MANTA) rewriting, control for communication path switch	0	Н
39	EPM	Setting pin for flash rewriting mode (pull-down)	I	
40	IC4_RST	IC4 forced reset	0	L
41	IC4_CE	Enable for IC4 communication	0	L
42	IC4_BUSY	Busy input for IC4 communication	I	Н
43	REQ_IC4	Communication request from the IC4	I	Н
44	CE	Setting pin for flash rewriting mode (pull-up)	I	
45	PSIZE	Panel size distinction	ı	
46	B_SCL	IIC clock output for backup EEPROM	0	Н
47	B_SDA	IIC DATA I/O for backup EEPROM	1/0	H
48	ADR_PD	PD signal of address junction	I	Н Н
49	LED_G	Green LED control	0	''
50	LED_R	Red LED control	0	L

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● Pin Function (2/2)

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No.	Pin Name	Function	1/0	ACTIVE
51	DRV_OFF	Driving OFF	0	Н
52	RELAY	Power ON control output	0	Н
53	POWER	Power ON control input	I	Н
54	MR_ST_B	MDR connection detection	I	L
55	OP_DET	Rear case open detection		
56	NC	NC pin		
57	PNL_MUTE	Panel mute	l	
58	DITHER	PC/VIDEO dither switch (panel module exclusive use)	I	
59	NC	NC pin		
60	VCC2	Power supply = STB 3.3V	_	-
61	PD_TRG	PD detection	I	L
62	VSS	GND	-	-
63	VH_PD	Vh power decrease PD	I	Н
64	YDRV_PD	Y drive PD signal	I	Н
65	YRES_PD	Y drive PD signal	I	Н
66	YDCDC_PD	PD signal of Y drive DC-DC converter	1	Н
67	IC5V_PD	5V power decrease PD	1	Н
68	XSUS_PD	X drive PD signal	l	Н
69	XDCDC_PD	PD signal of X drive DC-DC converter	I	Н
70	XDRV_PD	X drive PD signal	1	Н
71	NC	NC pin		
72	MR_AC	MR power monitor	I	Н
73	AC_DET	AC power monitor at panel side (same signal as CST1)	!	L
74	DVI_MUTE	Mute of panel link output	0	Н
75	A_MUTE	Audio mute	0	Н
76	A_NG	Audio NG detection	<u> </u>	L
77	A_SCL	IIC clock output for audio/others	0	L
78	A_SDA	IIC data I/O for audio/others	I/O	L
79	TRUBASS	TRUBASS ON/OFF	0	Н
80	STB_SW	Standby setting of audio amp.	0	L
81	FOCUS	FOCUS ON/OFF	0	Н
82	SRS	SRS ON/OFF	0	Н
83	DDC_WP	DDCROM write protection	0	Н
84	DVI_DET	DVI cable disconnection detection	<u> </u>	Н
85	RSTBTMDS	Reset detection of panel link receiver	<u>!</u>	L .
86	L_SYNC	DE omission detection of the panel link	ļ	L
87	NC	NC pin		
88	NC NACIO	NC pin		
89	MASK1	[A/D] Mask display setting	<u> </u>	
90	MAX_PLS2	[A/D] Brightness setting for panel module	<u> </u>	
91	MAX_PLS1	[A/D] Brightness setting for panel module	<u> </u>	
92	TEMP	[A/D] AD input for temperature sensor	<u> </u>	
93	MODE	[A/D] Operation mode setting	I	
94	AVSS	GND for A/D input		-
95	MODEL	[A/D] CMX/HD/TV/WX distinction	ı	
96	VREF	Reference voltage for A/D input		_
97	AVCC NC	Power supply for A/D input = STB3.3V	_	_
98 99	NC NC	NC pin		
		NC pin	1	П
100	AMG_MD	Address emergency monitor	l	H

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■ PEG054A-K (DIGITAL VIDEO ASSY : IC5401) • PDP ASIC IC4

● Pin Function (1/10)

Ball No.	No.	Pin Name	Function
A1	1	BAI_6	A phase signal input of B video (sixth bit)
B1	2	BAI_5	A phase signal input of B video (fifth bit)
C1	3	BAI_4	A phase signal input of B video (fourth bit)
D1	4	NC NC	NC pin
E1	5	NC	NC pin
F1	6	BAI_3	A phase signal input of B video (fifth bit)
G1	7	BAI_2	A phase signal input of B video (fourth bit)
H1	8	FIELD	FIELD signal input
J1	9	XSUSB_12	X-Drive control signal output
K1	10	XSUSB_10	X-Drive control signal output
L1	11	XSUSB_4	X-Drive control signal output
M1	12	XSUSB_0	X-Drive control signal output
N1	13	XSUSA_10	X-Drive control signal output
P1	14	XSUSA_4	X-Drive control signal output
R1	15	XSUSA_2	X-Drive control signal output
T1	16	ADRS_0	Address control signal output
U1	17	AD6TXOUT3M	Address LVDS signal output
V1	18	AD6TXCLKOUTM	Address LVDS signal output
W1	19	AD6TXOUT2M	Address LVDS signal output
Y1	20	AD6TXOUT1M	Address LVDS signal output
AA1	21	AD6TXOUT0M	Address LVDS signal output
AB1	22	AD7TXOUT3M	Address LVDS signal output
AC1	23	AD7TXCLKOUTM	Address LVDS signal output
AD1	24	AD7TXOUT2M	Address LVDS signal output
AE1	25	AD7TXOUT1M	Address LVDS signal output
AF1	26	AD7TXOUT0M	Address LVDS signal output
AF2	27	AD7TXOUT0P	Address LVDS signal output
AF3	28	VSSLA	GND
AF4	29	AD3TXOUT3M	Address LVDS signal output
AF5	30	AD3TXCLKOUTM	Address LVDS signal output
AF6	31	AD3TXOUT2M	Address LVDS signal output
AF7	32	AD3TXOUT1M	Address LVDS signal output
AF8	33	AD3TXOUT0M	Address LVDS signal output
AF9	34	AD2TXOUT3M	Address LVDS signal output
AF10	35	AD2TXCLKOUTM	Address LVDS signal output
AF11	36	AD2TXOUT2M	Address LVDS signal output
AF12	37	AD2TXOUT1M	Address LVDS signal output
AF13	38	AD2TXOUT0M	Address LVDS signal output
AF14	39	AD1TXOUT3M	Address LVDS signal output
AF15	40	AD1TXCLKOUTM	Address LVDS signal output
AF16	41	AD1TXOUT2M	Address LVDS signal output
AF17	42	AD1TXOUT1M	Address LVDS signal output
AF18	43	AD1TXOUT0M	Address LVDS signal output
AF19	44	AD0TXOUT3M	Address LVDS signal output
AF20	45	AD0TXCLKOUTM	Address LVDS signal output
AF21	46	AD0TXOUT2M	Address LVDS signal output
AF22	47	AD0TXOUT1M	Address LVDS signal output
AF23	48	AD0TXOUT0M	Address LVDS signal output
AF24	49	VSSL15	GND
AF25	50	AD4TXOUT3P	Address LVDS signal output

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● Pin Function (2/10)

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Ball No.	No.	Pin Name	Function		
AF26	51	AD4TXOUT3M	Address LVDS signal output		
AE26	52	AD4TXCLKOUTM	Address LVDS signal output		
AD26	53	AD4TXOUT2M	Address LVDS signal output		
AC26	54	AD4TXOUT1M	Address LVDS signal output		
AB26	55	AD4TXOUT0M	Address LVDS signal output		
AA26	56	AD5TXOUT3M	Address LVDS signal output		
Y26	57	AD5TXCLKOUTM	Address LVDS signal output		
W26	58	AD5TXOUT2M	Address LVDS signal output		
V26	59	AD5TXOUT1M	Address LVDS signal output		
U26	60	AD5TXOUT0M	Address LVDS signal output		
T26	61	SDIDBI_N	JTAG signal		
R26	62	SDIJTAG	JTAG signal		
P26	63	GPIO0_3	Microcomputer macro general-purpose port		
N26	64	GPIO0_1	Microcomputer macro general-purpose port		
M26	65	YSUSA_4	Y-Drive control signal output		
L26	66	YSUSA_10	Y-Drive control signal output		
K26	67	YSUSA_14	Y-Drive control signal output		
J26	68	YSUSB_4	Y-Drive control signal output		
H26	69	YSUSB_6	Y-Drive control signal output		
G26	70	YSUSB_10	Y-Drive control signal output		
F26	71	YSUSB_14	Y-Drive control signal output		
E26	72	NC	NC pin		
D26	73	NC	NC pin		
C26	74	SCAN_10	Scan control signal output		
B26	75	CSIOTXD	Communication with microcomputer		
A26	76	CSRD_N	Communication with microcomputer		
A25	77	CSCS_N0	Communication with microcomputer		
A24	78	EXA16	Flash memory address bus		
A23	79	EXA15	Flash memory address bus		
A22	80	EXA14	Flash memory address bus		
A21	81	EXA13	Flash memory address bus		
A20	82	EXA12	Flash memory address bus		
A19	83	EXA10	Flash memory address bus		
A18	84	EXA7	Flash memory address bus		
A17	85	EXA1	Flash memory address bus		
A16	86	EXDIO_3	Flash memory data bus		
A15	87	EXDIO_5	Flash memory data bus		
A14	88	EXDIO_11	Flash memory data bus		
A13	89	TRNSEND_O	NC pin		
A12	90	RBI_5	B phase signal input of R video (fifth bit)		
A11	91	RBI_0	B phase signal input of R video (0 bit)		
A10	92	GBI_8	B phase signal input of G video (eighth bit)		
A9	93	GBI_2	B phase signal input of G video (second bit)		
A8	94	BBI_6	B phase signal input of B video (sixth bit)		
A7	95	BBI_0	B phase signal input of B video (0 bit)		
A6	96	VDI	VD signal input		
A5	97	RAI_5	A phase signal input of R video (fifth bit)		
A4	98	DCLKI	CLK input		
A3	99	GAI_4	A phase signal input of G video (fourth bit)		
A2	100	BAI_9	A phase signal input of B video (ninth bit)		

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• Pin Function (3/10)

Ball No.	No.	Pin Name	Function
B2	101	BAI_8	A phase signal input of B video (eighth bit)
C2	102	BAI_7	A phase signal input of B video (seventh bit)
D2	103	GND	GND
E2	104	NC	NC
F2	105	NC	NC
G2	106	BAI_1	A phase signal input of B video (first bit)
H2	107	XSUSB_15	X-Drive control signal output
J2	108	GND	GND
K2	109	XSUSB_9	X-Drive control signal output
L2	110	XSUSB_3	X-Drive control signal output
M2	111	XSUSA_15	X-Drive control signal output
N2	112	XSUSA_9	X-Drive control signal output
P2	113	GND	GND
R2	114	XSUSA_1	X-Drive control signal output
T2	115	TEST2	Test signal input (Not used)
U2	116	AD6TXOUT3P	Address LVDS signal output
V2	117	AD6TXCLKOUTP	Address LVDS signal output
W2	118	AD6TXOUT2P	Address LVDS signal output
Y2	119	AD6TXOUT1P	Address LVDS signal output
AA2	120	AD6TXOUT0P	Address LVDS signal output
AB2	121	AD7TXOUT3P	Address LVDS signal output
AC2	122	AD7TXCLKOUTP	Address LVDS signal output
AD2	123	AD7TXOUT2P	Address LVDS signal output
AE2	124	AD7TXOUT1P	Address LVDS signal output
AE3	125	VSSLA	GND
AE4	126	AD3TXOUT3P	Address LVDS signal output
AE5	127	AD3TXCLKOUTP	Address LVDS signal output
AE6	128	AD3TXOUT2P	Address LVDS signal output
AE7	129	AD3TXOUT1P	Address LVDS signal output
AE8	130	AD3TXOUT0P	Address LVDS signal output
AE9	131	AD2TXOUT3P	Address LVDS signal output
AE10	132	AD2TXCLKOUTP	Address LVDS signal output
AE11	133	AD2TXOUT2P	Address LVDS signal output
AE12	134	AD2TXOUT1P	Address LVDS signal output
AE13	135	AD2TXOUT0P	Address LVDS signal output
AE14	136	AD1TXOUT3P	Address LVDS signal output
AE15	137	AD1TXCLKOUTP	Address LVDS signal output
AE16	138	AD1TXOUT2P	Address LVDS signal output
AE17	139	AD1TXOUT1P	Address LVDS signal output
AE18	140	AD1TXOUT0P	Address LVDS signal output
AE19	141	AD0TXOUT3P	Address LVDS signal output
AE20	142	AD0TXCLKOUTP	Address LVDS signal output
AE21	143	AD0TXOUT2P	Address LVDS signal output
AE22	144	AD0TXOUT1P	Address LVDS signal output
AE23	145	AD0TXOUT0P	Address LVDS signal output
AE24	146	VSSL15	GND
AE25	147	AD4TXCLKOUTP	Address LVDS signal output
AD25	148	AD4TXOUT2P	Address LVDS signal output
AC25	149	AD4TXOUT1P	Address LVDS signal output
AB25	150	AD4TXOUT0P	Address LVDS signal output

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● Pin Function (4/10)

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Ball No.	No.	Pin Name	Function		
AA25	151	AD5TXOUT3P	Address LVDS signal output		
Y25	152	AD5TXCLKOUTP	Address LVDS signal output		
W25	153	AD5TXOUT2P	Address LVDS signal output		
V25	154	AD5TXOUT1P	Address LVDS signal output		
U25	155	AD5TXOUT0P	Address LVDS signal output		
T25	156	SDITRST_N	JTAG signal		
R25	157	RESETX	Reset input		
P25	158	GND	GND		
N25	159	GPIO0_0	Microcomputer macro general-purpose port		
M25	160	YSUSA_5	Y-Drive control signal output		
L25	161	YSUSA_11	Y-Drive control signal output		
K25	162	YSUSA_15	Y-Drive control signal output		
J25	163	GND	GND		
H25	164	YSUSB_7	Y-Drive control signal output		
G25	165	YSUSB_11	Y-Drive control signal output		
F25	166	NC	NC pin		
E25	167	NC	NC pin		
D25	168	GND	GND		
C25	169	SCAN_11	Scan control signal output		
B25	170	CSIORXD	Communication with UCOM		
B24	171	CSIOSCKI	Communication with UCOM		
B23	172	UARTTXD	Communication with UCOM		
B22	173	UARTRXD	Communication with UCOM		
B21	174	CSWR_N0	Communication with UCOM		
B20	175	GND	GND		
B19	176	EXA9	Flash memory address bus		
B18	177	EXA6	Flash memory address bus		
B17	178	EXA0	Flash memory address bus		
B16	179	GND	GND		
B15	180	EXDIO_6	Flash memory data bus		
B14	181	EXDIO_12	Flash memory data bus		
B13	182	RBI_9	B phase signal input of R video (ninth bit)		
B12	183	RBI_4	B phase signal input of R video (fourth bit)		
B11 B10	184 185	GND	GND R phase signal input of C video (coverth hit)		
B10	186	GBI_7 GBI_1	B phase signal input of G video (seventh bit) B phase signal input of G video (first bit)		
B8	187	BBI_5	B phase signal input of B video (fifth bit)		
B7	188	GND	GND		
B6	189	HDI	HD signal input		
B5	190	RAI_4	A phase signal input of R video (fourth bit)		
B4	191	GAI_9	A phase signal input of G video (ninth bit)		
B3	192	GAI_3	A phase signal input of G video (third bit)		
C3	193	GAI_2	A phase signal input of G video (second bit)		
D3	194	VDDD33	3.3V power supply		
E3	195	GAI_1	A phase signal input of G video (first bit)		
F3	196	GAI_0	A phase signal input of G video (0 bit)		
G3	197	NC	NC pin		
H3	198	XSUSB_14	X-Drive control signal output		
J3	199	VDDIO	3.3V power supply		
K3	200	XSUSB_8	X-Drive control signal output		
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● Pin Function (5/10)

Ball No.	No.	Pin Name	Function	
L3	201	XSUSB_2	X-Drive control signal output	
МЗ	202	XSUSA_14	X-Drive control signal output	
N3	203	XSUSA_8	X-Drive control signal output	
P3	204	VDDIO	3.3V power supply	
R3	205	XSUSA_0	X-Drive control signal output	
T3	206	TEST1	Test signal input (Not used)	
U3	207	VSSLA	GND	
V3	208	VSSLA	GND	
W3	209	VSSLA	GND	
Y3	210	VSSLA	GND	
AA3	211	VSSLA	GND	
AB3	212	VSSLA	GND	
AC3	213	VSSLA	GND	
AD3	214	VSSLA	GND	
AD4	215	VSSLA	GND	
AD4 AD5	216	VSSLA	GND	
AD5 AD6	217	VSSLA	GND	
AD0	218	VSSLA	GND	
AD7	219	VSSLA	GND	
AD10	220	VSSLA	GND	
AD10	221	VSSLA	GND	
AD11	222	VSSLA	GND	
AD12	223	VSSLA	GND	
AD13	224	VSSLA	GND	
AD14	225	VSSLA	GND	
AD15	226	VSSLA	GND	
AD16	227	VSSLA	GND	
AD17	228	VSSLA	GND	
AD18	229	VSSLA	GND	
AD19	230	VSSLA	GND	
AD20	231	VSSLA	GND	
AD21	232	VSSLA	GND	
AD22	233	VSSLA	GND	
AD23	234	VSSLA	GND	
AD24	235	VSSLA	GND	
AC24	236	VSSLA	GND	
AB24	237	VSSLA	GND	
AA24	238	VSSLA	GND	
Y24	239	VSSLA	GND	
W24	240	VSSLA	GND	
V24	241	VSSLA	GND	
U24	242	VSSLA	GND	
T24	243	SDITDO	JTAG signal	
R24	244	GPIO0_7	Microcomputer macro general-purpose port	
P24	245	VDDIO	3.3V power supply	
N24	246	YSUSA_0	Y-Drive control signal output	
M24	247	YSUSA_6	Y-Drive control signal output	
L24	248	YSUSA_12	Y-Drive control signal output	
K24	249	YSUSB_0	Y-Drive control signal output	
J24	250	VDDD33	3.3V power supply	

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● Pin Function (6/10)

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Ball No.	No.	Pin Name	Function		
H24	251	YSUSB_8	Y-Drive control signal output		
G24	252	NC	NC pin		
F24	253	YSUSB_15	Y-Drive control signal output		
E24	254	SCAN_3	Scan control signal output		
D24	255	VDDD33	3.3V power supply		
C24	256	SCAN_12	Scan control signal output		
C23	257	SCAN_13	Scan control signal output		
C22	258	SCAN_14	Scan control signal output		
C21	259	SCAN_15	Scan control signal output		
C20	260	VDDIO	3.3V power supply		
C19	261	EXA8	Flash memory address bus		
C18	262	EXA5	Flash memory address bus		
C17	263	CLKD	CLK input (60MHz)		
C16	264	VDDIO	3.3V power supply		
C15	265	EXDIO_7	Flash memory data bus		
C14	266	EXDIO_13	Flash memory data bus		
C13	267	RBI_8	B phase signal input of R video (eighth bit)		
C12	268	RBI_3	B phase signal input of R video (third bit)		
C11	269	VDDIO	3.3V power supply		
C10	270	GBI_6	B phase signal input of G video (sixth bit)		
C9	271	GBI_0	B phase signal input of G video (0 bit)		
C8	272	BBI_4	B phase signal input of B video (fourth bit)		
C7	273	VDDIO	3.3V power supply		
C6	274	RAI_9	A phase signal input of R video (ninth bit)		
C5	275	RAI_3	A phase signal input of R video (third bit)		
C4	276	GAI_8	A phase signal input of G video (eighth bit)		
D4	277	GAI_7	A phase signal input of G video (seventh bit)		
E4	278	GAI_6	A phase signal input of G video (sixth bit)		
F4	279	GAI_5	A phase signal input of G video (fifth bit)		
G4	280	VCMP	GND		
H4	281	XSUSB_13	X-Drive control signal output		
J4	282	XSUSB_11	X-Drive control signal output		
K4	283	XSUSB_7	X-Drive control signal output		
L4	284	XSUSB_1	X-Drive control signal output		
M4	285	XSUSA_13	X-Drive control signal output		
N4	286	XSUSA_7	X-Drive control signal output		
P4	287	XSUSA_3	X-Drive control signal output		
R4	288	ADRS_3	Address control signal output		
T4	289	TESTAN	Test signal input (Not used)		
U4	290	VDDLA	3.3V power supply		
V4	291	VDDLA	3.3V power supply		
W4	292	VDDLA	3.3V power supply		
Y4	293	VDDLA	3.3V power supply		
AA4 AB4	294	VDDLA	3.3V power supply		
	295	VDDLA	3.3V power supply		
AC4 AC5	296 297	VDDLA VDDLA	3.3V power supply 3.3V power supply		
AC5 AC6	297	VDDLA	3.3V power supply 3.3V power supply		
AC6 AC7	298	VDDLA	3.3V power supply		
AC7	300	VDDLA	3.3V power supply		
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● Pin Function (7/10)

Ball No.	No.	Pin Name	Function
AC8	300	VDDLA	3.3V power supply
AC9	301	VDDLA	3.3V power supply
AC10	302	VDDLA	3.3V power supply
AC11	303	VDDLA	3.3V power supply
AC12	304	VDDLA	3.3V power supply
AC13	305	VDDLA	3.3V power supply
AC14	306	VDDBG	3.3V power supply
AC15	307	VDDLA	3.3V power supply
AC16	308	VDDLA	3.3V power supply
AC17	309	VDDLA	3.3V power supply
AC17	310	VDDLA	3.3V power supply
AC19	311	VDDLA	3.3V power supply
	311	VDDLA	
AC20			3.3V power supply
AC21	313	VDDLA	3.3V power supply
AC22	314	VDDLA	3.3V power supply
AC23	315	VDDLA	3.3V power supply
AB23	316	VDDLA	3.3V power supplyv
AA23	317	VDDLA	3.3V power supply
Y23	318	VDDLA	3.3V power supply
W23	319	VDDLA	3.3V power supply
V23	320	VDDLA	3.3V power supply
U23	321	VDDLA	3.3V power supply
T23	322	SDITDI	JTAG signal
R23	323	GPIO0_6	Microcomputer macro general-purpose port
P23	324	GPIO0_2	Microcomputer macro general-purpose port
N23	325	YSUSA_1	Y-Drive control signal output
M23	326	YSUSA_7	Y-Drive control signal output
L23	327	YSUSA_13	Y-Drive control signal output
K23	328	YSUSB_1	Y-Drive control signal output
J23	329	YSUSB_5	Y-Drive control signal output
H23	330	YSUSB_9	Y-Drive control signal output
G23	331	VCMP	GND
F23	332	SCAN_0	Scan control signal output
E23	333	SCAN_4	Scan control signal output
D23	334	SCAN_7	Scan control signal output
D22	335	SCAN_8	Scan control signal output
D21	336	SCAN_9	Scan control signal output
D20	337	EXA11	Flash memory address bus
D19	338	EXA19	Flash memory address bus
D18	339	EXA4	Flash memory address bus
D17	340	EXDIO_0	Flash memory data bus
D16	341	EXDIO_4	Flash memory data bus
D15	342	EXDIO_8	Flash memory data bus
D14	343	EXDIO_14	Flash memory data bus
D13	344	RBI_7	B phase signal input of R video (seventh bit)
D12	345	RBI_2	B phase signal input of R video (second bit)
D11	346	GBI_9	B phase signal input of G video (ninth bit)
D10	347	GBI_5	B phase signal input of G video (fifth bit)
			B phase signal input of B video (ninth bit)
D9	348	BBI_9	Digital production of the pr

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● Pin Function (8/10)

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	Ball No.	No.	Pin Name	Function
	D7	350	DEI	DE signal input
	D6	351	RAI_8	A phase signal input of R video (eighth bit)
	D5	352	RAI_2	A phase signal input of R video (second bit)
	E5	353	RAI_1	A phase signal input of R video (first bit)
	F5	354	RAI_0	A phase signal input of R video (0 bit)
	G5	355	BAI_0	A phase signal input of B video (0 bit)
	H5	356	VSS15	GND
	J5	357	VDDHR	3.3V power supply
	K5	358	XSUSB_6	X-Drive control signal output
	L5	359	VSSD15	GND
	M5	360	XSUSA_12	X-Drive control signal output
	N5	361	XSUSA_6	X-Drive control signal output
	P5	362	VSS15	GND
	R5	363	ADRS_2	Address control signal output
	T5	364	TESTBN	Test signal input (Not used)
	U5	365	VSSL15	GND
	V5	366	VSSLA	GND
	W5	367	VSSLA	GND
	Y5	368	VSSL15	GND
	AA5	369	VDDLP	3.3V power supply
	AB5	370	VSSL15	GND
	AB6	371	VSSLA	GND
	AB7	372	VSSLA	GND
	AB8	373	VSSL15	GND
L	AB9	374	VSSLA	GND
	AB10	375	VSSLA	GND
	AB11	376	VSSL15	GND
L	AB12	377	VSSLA	GND
L	AB13	378	VSSLA	GND
	AB14	379	REFRIN	Reference current generation
	AB15	380	VSSBG	GND
L	AB16	381	VSSL15	GND
	AB17	382	VSSLA	GND
	AB18	383	VSSLA	GND
	AB19	384	VSSL15	GND
L	AB20	385	VSSLA	GND
	AB21	386	VSSLA	GND
	AB22	387	VSSLA	GND
L	AA22	388	VDDLA	3.3V power supply
 -	Y22	389	VSSL15	GND
	W22	390	VSSLA	GND
 -	V22	391	VSSLA	GND
	U22	392	VSSL15	GND
-	T22	393	SDITMS	JTAG signal
	R22	394	GPIO0_5	Microcomputer macro general-purpose port
_	P22	395	VSS15	GND
_	N22	396	YSUSA_2	Y-Drive control signal output
_	M22	397	YSUSA_8	Y-Drive control signal output
	L22	398	VSSD15	GND
L	K22	399	YSUSB_2	Y-Drive control signal output

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● Pin Function (9/10)

Ball No.	No.	Pin Name	Function
J22	400	VDDHL	3.3V power supply
H22	401	VSSD15	GND
G22	402	YSUSB_12	Y-Drive control signal output
F22	403	SCAN_1	Scan control signal output
E22	404	SCAN_5	Scan control signal output
E21	405	SCAN_6	Scan control signal output
E20	406	VSS15	GND
E19	407	EXA18	Flash memory address bus
E18	408	EXA3	Flash memory address bus
E17	409	EXDIO_1	Flash memory data bus
E16	410	VSS15	GND
E15	411	EXDIO_9	Flash memory data bus
E14	412	EXDIO_15	Flash memory data bus
E13	413	RBI_6	B phase signal input of R video (sixth bit)
E12	414	CLKS	CLK input (85MHz)
E11	415	VSS15	GND
E10	416	GBI_4	B phase signal input of G video (fourth bit)
E8	418	BBI_2	B phase signal input of B video (second bit)
E9	417	BBI_8	B phase signal input of B video (eighth bit)
E7	419	VSS15	GND
E6	420	RAI_7	A phase signal input of R video (seventh bit)
F6	421	RAI_6	A phase signal input of R video (sixth bit)
G6	422	APL_DT	APL value trigger input
H6	423	VDD15	1.5V power supply
J6	424	VBB	VBB power monitor in the DRAM
K6	425	XSUSB_5	X-Drive control signal output
L6	426	VDDD15	1.5V power supply
M6	427		X-Drive control signal output
N6	427	XSUSA_11 XSUSA_5	X-Drive control signal output X-Drive control signal output
P6	429	VDD15	1.5V power supply
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R6 T6	430	ADRS_1 TESTCN	Address control signal output
	431		Test signal input (Not used)
U6	432	VDDL15	1.5V power supply
V6	433	VDDLA	3.3V power supply
W6	434	VDDL4	3.3V power supply
Y6	435	VDDL15	1.5V power supply
AA6	436	VDDLA	3.3V power supply
AA7	437	VDDL4	3.3V power supply
AA8	438	VDDL15	1.5V power supply
AA9	439	VDDLA	3.3V power supply
AA10	440	VDDL4	3.3V power supply
AA11	441	VDDL15	1.5V power supply
AA12	442	VDDLA	3.3V power supply
AA13	443	VDDLA	3.3V power supply
AA14	444	VDDLA	3.3V power supply
AA15	445	VDDLA	3.3V power supply
AA16	446	VDDL15	1.5V power supply
AA17	447	VDDLA	3.3V power supply
AA18	448	VDDLA	3.3V power supply
AA19	449	VDDL15	1.5V power supply

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● Pin Function (10/10)

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Ball No.	No.	Pin Name	Function
AA20	450	VDDLA	3.3V power supply
AA21	451	VDDLA	3.3V power supply
Y21	452	VDDL15	1.5V power supply
W21	453	VDDLA	3.3V power supply
V21	454	VDDLA	3.3V power supply
U21	455	VDDL15	1.5V power supply
T21	456	SDITCK	JTAG signal
R21	457	GPIO0_4	Microcomputer macro general-purpose port
P21	458	VDD15	1.5V power supply
N21	459	YSUSA_3	Y-Drive control signal output
M21	460	YSUSA_9	Y-Drive control signal output
L21	461	VDDD15	1.5V power supply
K21	462	YSUSB_3	Y-Drive control signal output
J21	463	VBB	VBB power monitor in the DRAM
H21	464	VDDD15	1.5V power supply
G21	465	YSUSB_13	Y-Drive control signal output
F21	466	SCAN_2	Scan control signal output
F20	467	VDD15	1.5V power supply
F19	468	EXA17	Flash memory address bus
F18	469	EXA2	Flash memory address bus
F17	470	EXDIO_2	Flash memory data bus
F16	471	VDD15	1.5V power supply
F15	472	EXDIO_10	Flash memory data bus
F14	473	TRNSEND_I	NC pin
F13	474	VDD15	1.5V power supply
F12	475	RBI_1	B phase signal input of R video (first bit)
F11	476	VDD15	1.5V power supply
F10	477	GBI_3	B phase signal input of G video (third bit)
F9	478	BBI_7	B phase signal input of B video (seventh bit)
F8	479	BBI_1	B phase signal input of B video (first bit)
F7	480	VDD15	1.5V power supply

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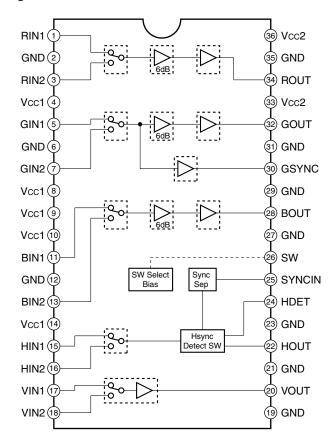
■ AN5870SB (RGB ASSY : IC6402)

(AV I/O ASSY: IC7610, IC7613) (VIDEO SLOT1 ASSY: IC7902) (VIDEO SLOT2 ASSY: IC7902)

• Wide Band Analog SW

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• Pin Arrangement / Block Diagram



Pin Function

No.	Name	Function	No.	Name	Function
1	RIN1	R input 1	19	GND	Ground (HV, HSEP, SW)
2	GND	Ground (R)	20	VOUT	V output
3	RIN2	R input 2	21	GND	Ground
4	Vcc1	5V (GSYNC)	22	HOUT	H output
5	GIN1	G input 1	23	GND	Ground
6	GND	Ground (G)	24	HDET	H detect
7	GIN2	G input 2	25	SYNCIN	Sync input
8	Vcc1	5V (R)	26	SW	SW
9	Vcc1	5V (G)	27	GND	Ground
10	Vcc1	5V (B)	28	BOUT	B output
11	BIN1	B input 1	29	GND	Ground (RGB)
12	GND	Ground (B)	30	GSYNC	GSync output
13	BIN2	B input 2	31	GND	Ground (RGB)
14	Vcc1	5V (HV, HSEP, SW)	32	GOUT	G output
15	HIN1	H input 1	33	Vcc2	12V (RGB)
16	HIN2	H input 2	34	ROUT	R output
17	VIN1	V input 1	35	GND	Ground
18	VIN2	V input 2	36	Vcc2	12V (RGB)

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■ AD9883AKST-110 (RGB ASSY : IC6602)

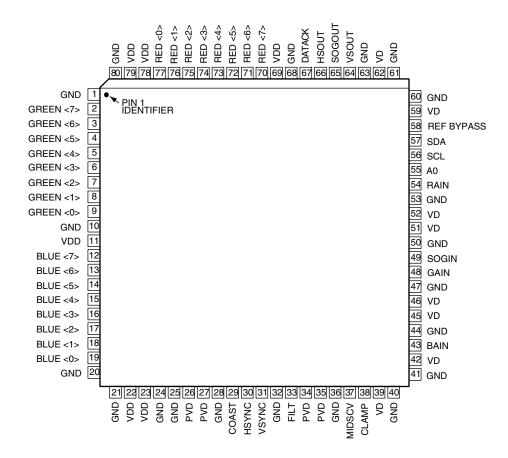
• 110 MSPS Analog Interface

Pin Arrangement (Top View)

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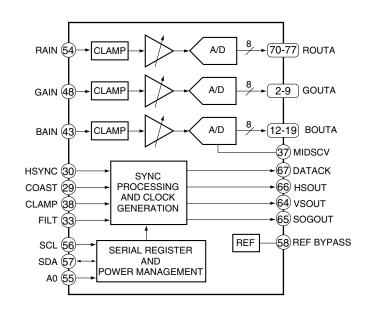
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Block Diagram



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PDP-504CMX/1

Pin Function

1			Pin Function
	GND	_	Ground
2	GREEN 7	0	Converter Green output (MSB)
3	GREEN 6	0	Converter Green output
4	GREEN 5	0	Converter Green output
5	GREEN 4	0	Converter Green output
6	GREEN 3	0	Converter Green output
7	GREEN 2	0	Converter Green output
8	GREEN 1	0	Converter Green output
9	GREEN 0	0	Converter Green output
10	GND	_	Ground
11	VDD	_	Power supply (3.3V)
12	BLUE 7	0	Converter Blue output (MSB)
13	BLUE 6	0	Converter Blue output
14	BLUE 5	0	Converter Blue output
15	BLUE 4	0	Converter Blue output
16	BLUE 3	0	Converter Blue output
17	BLUE 2	0	Converter Blue output
18	BLUE 1	0	Converter Blue output
19	BLUE 0	0	Converter Blue output
20	GND	_	Ground
21	GND	_	Ground
22	VDD	_	Power supply (3.3V)
23	VDD	_	Power supply (3.3V)
24	GND	_	Ground
25	GND	_	Ground
26	PVD	_	PLL power supply (3.3V)
27	PVD	-	PLL power supply (3.3V)
28	GND	_	Ground
29	COAST	1	PLL COAST signal input
30	HSYNC	ı	Horizontal sync. input
31	VSYNC	1	Vertical sync. input
32	GND	_	Ground
33	FILT	_	External filter connection pin for built-in PLL
34	PVD	_	PLL power supply (3.3V)
35	PVD	_	PLL power supply (3.3V)
36	GND	_	Ground
37	MIDSCV	_	Internal middle scale voltage bias
38	CLAMP	1	Clamp input (External clamp signal)
39	VD	_	Analog power supply (3.3V)
40	GND	_	Ground
41	GND	_	Ground
42	VD	_	Analog power supply (3.3V)
43	BAIN	ı	Analog input for converter B
44	GND	_	Ground
45	VD	_	Analog power supply (3.3V)

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No.	Pin Name	I/O	Pin Function
46	VD	-	Analog power supply (3.3V)
47	GND	_	Ground
48	GAIN	ı	Analog input for converter G
49	SOGIN	ı	Input for Sync-on Green
50	GND	_	Ground
51	VD	_	Analog power supply (3.3V)
52	VD	-	Analog power supply (3.3V)
53	GND	_	Ground
54	RAIN	ı	Analog input for converter R
55	A0	ı	Address input 1 of serial port
56	SCL	ı	Data clock (max. 100kHz) of serial port
57	SDA	I/O	Data input/output of serial port
58	REF BYPASS	-	Internal reference bypass
59	VD	_	Analog power supply (3.3V)
60	GND	_	Ground
61	GND	_	Ground
62	VD	_	Analog power supply (3.3V)
63	GND	_	Ground
64	VSOUT	0	VSYNC output (phasing with DATACLK)
65	SOGOUT	0	Sync-on-Green slicer output
66	HSOUT	0	HSYNC output (phasing with DATACLK)
67	DATACLK	0	Data input/output clock
68	GND	_	Ground
69	VDD	-	Power supply (3.3V)
70	RED 7	0	Converter Red output (MSB)
71	RED 6	0	Converter Red output
72	RED 5	0	Converter Red output
73	RED 4	0	Converter Red output
74	RED 3	0	Converter Red output
75	RED 2	0	Converter Red output
76	RED 1	0	Converter Red output
77	RED 0	0	Converter Red output
78	VDD	-	Power supply (3.3V)
79	VDD	_	Power supply (3.3V)
80	GND	-	Ground

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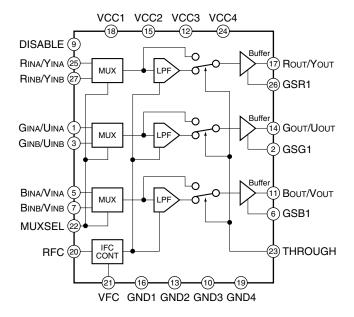
■ SM5301BS (RGB ASSY : IC6601)

Video Filter

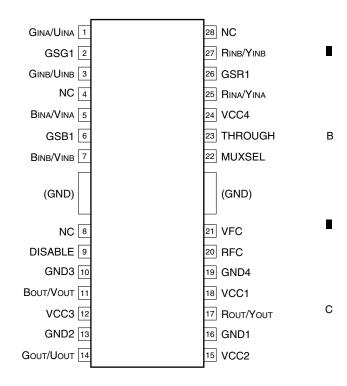
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Block Diagram



• Pin Arrangement (Top View)



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PDP-504CMX/1

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• Pin Function

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No.	Pin Name	I/O	Pin Function	
1	Gina/Uina	ı	Analog GINA or UINA signal input. Sync signal is input on SYNCIN pin.	
2	GSG1	I	GOUT/UOUT output buffer gain set input	
3	GINB/UINB	ı	Analog GINB or UINB signal input. Sync signal is input on SYNCIN pin.	
4	(NC)	_	No connection	
5	BINA/VINA	ı	Analog BINA or VINA signal input. Sync signal is input on SYNCIN pin.	
6	GSB1	1	BOUT/VOUT output buffer gain set input	
7	BINB/VINB	ı	Analog BINB or VINB signal input. Sync signal is input on SYNCIN pin.	
8	(NC)	_	No connection	
9	DISABLE	I	Power save function. Built-in pull-down resistor. L: Enable H: Disable (Output pins: ROUT/YOUT, GOUT/UOUT, and BOUT/VOUT are high impedance.)	
10	GND3	_	Analog ground	
11	Воит/Vouт	0	B/V signal output	
12	VCC3	_	Analog 5V supply	
13	GND2	_	Analog ground	
14	Gоит/ U оит	0	U signal output	
15	VCC2	_	Analog 5V supply	
16	GND1	_	Analog ground	
17	Rоит/Yоит	0	R/Y signal output	
18	VCC1	_	Analog 5V supply	
19	GND4	_	Analog ground	
20	RFC	_	LPF (lowpass filter) cutoff frequency setting resistor connection	
21	VFC	I	LPF (lowpass filter) cutoff frequency setting voltage input	
22	MUXSEL	ı	Input select signal. Built-in pull-down resistor. L: XINA pin select H: XINB pin select	
23	THROUGH	ı	Filter through Built-in pull-down resistor. L: Filter function H: Filter through (buffer only)	
24	VCC4	_	Analog 5V supply	
25	RINA/YINA	I	Analog RINA or YINA signal input. Sync signal is input on SYNCIN pin.	
26	GSR1	I	ROUT/YOUT output buffer gain set input	
27	RINB/YINB	I	Analog RINB or YINB signal input. Sync signal is input on SYNCIN pin.	
28	(NC)	_	No connection	

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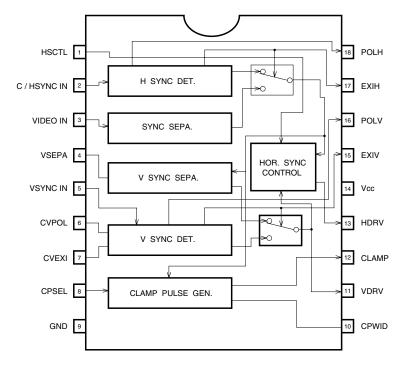
PDP-504CMX/1

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Block Diagram



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PDP-504CMX/1

• Pin Function

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No.	Pin Name	Pin Function
1	HSCTL	HDRV output Used to select whether to output the VDRV section of the HDRV output signal. High: VDRV section of HDRV is output Low: VDRV section of HDRV is not output
2	C/HSYNC IN	Composite sync / H SYNC input Input either the composite synchronization signal or the horizontal synchronization signal. Input is clamped, and is initiated by capacitor coupling.
3	VIDEO IN	SYNC ON VIDEO input Inputs the SYNC ON VIDEO signal(green). Input is sink chip clamped. Input is initiated by capacitor coupling.
4	VSEPA	f-V conversion Converts the horizontal synchronization signal frequency into a voltage. The voltage generated is proportional to the frequency of the horizontal synchronization signal. Attach a 0.56 μF capacitor between the ground pins.
5	VSYNC IN	V SYNC input Inputs the vertical synchronization signal.
6	CVPOL	Vertical polarity integration Integrates the vertical synchronization signal polarity detection circuit. Attach a 1.5 μF capacitor between this pin and the ground.
7	CVEXI	Vertical existence integration Integrates the vertical synchronization signal existence detection circuit. Attach a 1 μF capacitor between this pin and the ground.
8	CPSEL	Setting the clamp position Used to set the clamp pulse generation position to either the front or back edge of HSYNC High: The front edge is the generation position Open: Composite / H SYNC IN: The front edge is the generation position VIDEO IN: The back edge is the generation position Low: The back edge is the generation position
9	GND	Ground
10	CPWID	Setting the clamp pulse width Sets the clamp pulse width according to the attached time constant. Attach a resistor between this pin and VCC and, a capacitor between this pin and GND. When R = $3.9k\Omega$ and C = $100pF$, pulse width is approximately 400 ns. Set the resistor to register an abnormality at $1k\Omega$.
11	VDRV	VDRV output Outputs the vertical synchronization signal. The output signal has positive polarity.
12	CLAMP	Clamp output Outputs the clamp pulse generated from the vertical synchronization signal. The output signal has a positive polarity.
13	HDRV	HDRV output Outputs the clamp pulse generated from the horizontal synchronization signal. The output signal has positive polarity.
14	Vcc	Power supply
15	EXIV	Vertical existence output Indecates whether the vertical synchronization signal exists.
16	POLV	Vertical polarity output Indicates the polarity of the vertical synchronization signal.
17	EXIH	Horizontal existence output Indicates whether the horizontal synchronization signal exists.
18	POLH	Horizontal polarity output Indicates the polarity of the horizontal synchronization signal.

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PDP-504CMX/1

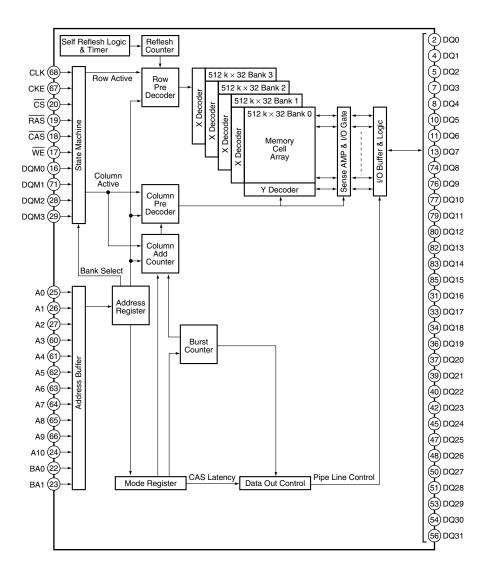
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Block Diagram



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• Pin Function

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No.	Pin Name	I/O	Pin Function	No.	Pin Name	I/O	Pin Function
1	VDD	_	Power supply	44	VSS	_	Ground
2	DQ0	I/O	Data input/output	45	DQ24	I/O	Data input/output
3	VDDQ	_	Power supply for output buffer	46	VSSQ	_	Ground for output buffer
4	DQ1	I/O	Data input/output	47	DQ25	I/O	Data input/output
5	DQ2	I/O	Data input/output	48	DQ26	I/O	Data input/output
6	VSSQ	_	Ground for output buffer	49	VDDQ	_	Power supply for output buffer
7	DQ3	I/O	Data input/output	50	DQ27	I/O	Data input/output
8	DQ4	I/O	Data input/output	51	DQ28	I/O	Data input/output
9	VDDQ	_	Power supply for output buffer	52	VSSQ	_	Ground for output buffer
10	DQ5	I/O	Data input/output	53	DQ29	I/O	Data input/output
11	DQ6	I/O	Data input/output	54	DQ30	I/O	Data input/output
12	VSSQ	_	Ground for output buffer	55	VDDQ	_	Power supply for output buffer
13	DQ7	I/O	Data input/output	56	DQ31	I/O	Data input/output
14	NC	_	No connection	57	NC	_	No connection
15	VDD	-	Power supply	58	VSS	-	Ground
16	DQM0	_	Data input/output mask	59	DQM3	-	Data input/output mask
17	/WE	_	Write enable	60	A3	-	Address input
18	/CAS	_	Column address strobe	61	A4	-	Address input
19	/RAS	_	Row address strobe	62	A5	-	Address input
20	/CS	ı	Chip select input	63	A6	ı	Address input
21	NC	_	No connection	64	A7	I	Address input
22	BA0	ı	Bank address input	65	A8	ı	Address input
23	BA1	_	Bank address input	66	A9	-	Address input
24	A10/AP	_	Address input	67	CKE	-	Clock enable
25	A0	1	Address input	68	CLK	ı	System clock input
26	A1	_	Address input	69	NC	-	No connection
27	A2	_	Address input	70	NC	-	No connection
28	DQM2	_	Data input/output mask	71	DQM1	ı	Data input/output mask
29	VDD	_	Power supply	72	VSS	_	Ground
30	NC	-	No connection	73	NC	-	No connection
31	DQ16	I/O	Data input/output	74	DQ8	I/O	Data input/output
32	VSSQ	_	Ground for output buffer	75	VDDQ	_	Power supply for output buffer
33	DQ17	I/O	Data input/output	76	DQ9	I/O	Data input/output
34	DQ18	I/O	Data input/output	77	DQ10	I/O	Data input/output
35	VDDQ	_	Power supply for output buffer	78	VSSQ	_	Ground for output buffer
36	DQ19	I/O	Data input/output	79	DQ11	I/O	Data input/output
37	DQ20	I/O	Data input/output	80	DQ12	I/O	Data input/output
38	VSSQ	_	Ground for output buffer	81	VDDQ	_	Power supply for output buffer
39	DQ21	I/O	Data input/output	82	DQ13	I/O	Data input/output
40	DQ22	I/O	Data input/output	83	DQ14	I/O	Data input/output
41	VDDQ	_	Power supply for output buffer	84	VSSQ	_	Ground for output buffer
42	DQ23	I/O	Data input/output	85	DQ15	I/O	Data input/output
43	VDD	_	Power supply	86	VSS	_	Ground

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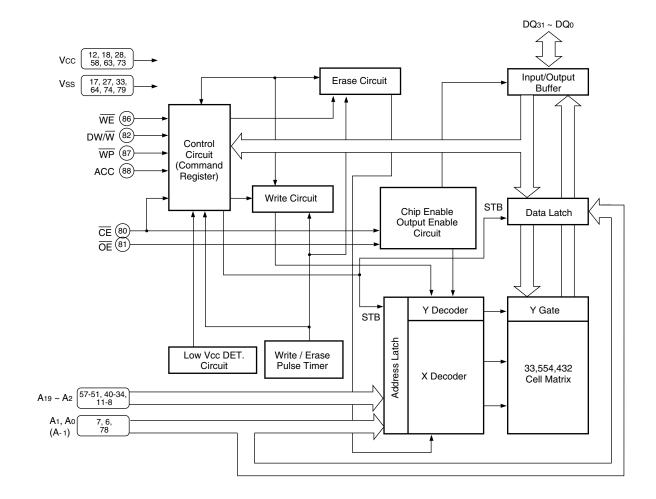
■ MBM29PL3200BE70PFV (RGB ASSY : IC7152)

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• Page Mode Flash Memory

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Block Diagram



Pin Function

No.	Pin Name	I/O	Pin Function
INO.	Pin Name	1/0	riii runction
57-51, 40-34, 11-6, 78	A19 - A0, A-1	I	Address input
78-75, 72-65, 62-59, 32-19, 26-19, 16-13	DQ31 - DQ0	I/O	Data input/output
80	CE	ı	Chip enable
81	OE	I	Output enable
86	86 WE I		Write enable
82	82 DW/W I		16 bit, 32 bit mode switch
87	87 WP I		Write protect
88	ACC	ı	Acceleration
17, 27, 33, 64, 74, 79	Vss	_	Ground
12, 18, 28, 58, 63, 73	Vcc	_	Power supply
1-5, 41-50, 83-85, 89, 90	N.C.	_	No connection

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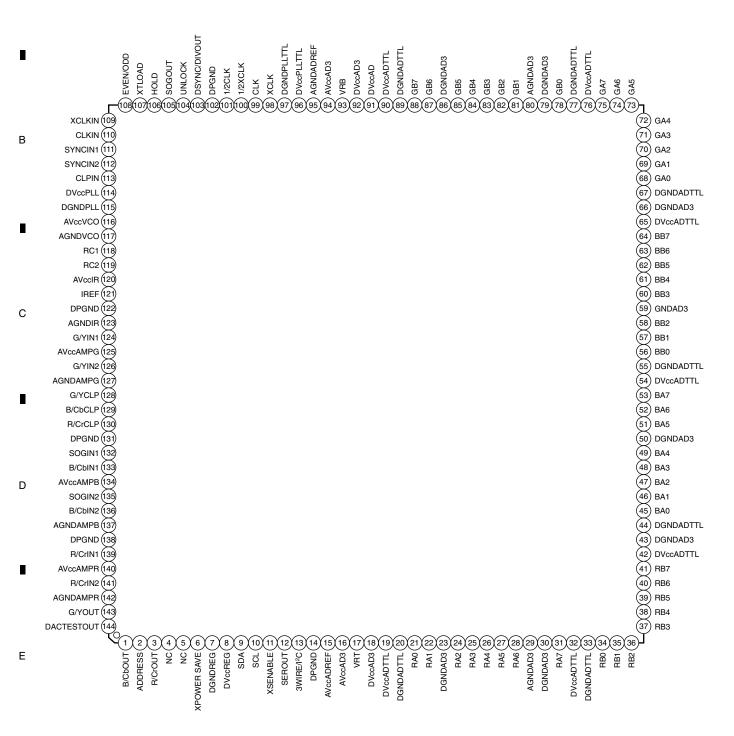
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CXA3516AR (RGB ASSY : IC6001)

• AD + PLL IC

Pin Arrangement (Top View)



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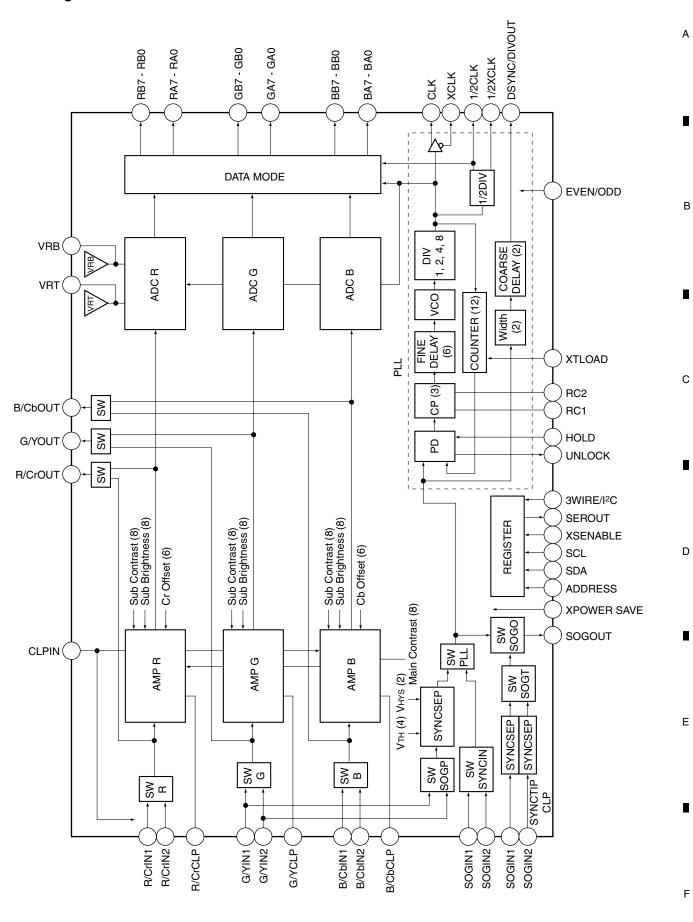
PDP-504CMX/1

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Block Diagram



PDP-504CMX/1

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Pin Function

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No.	Symbol	I/O	Pin Function
1	B/CbOUT	0	Amplifier output signal monitor
2	ADDRESS	ı	I ² C slave address setting
3	R/CrOUT	0	Amplifier output signal monitor
4	NC	_	Not used
5	NC	_	Not used
6	XPOWER SAVE	ı	Power save setting
7	DGNDREG	_	Register GND
8	DVccREG	_	Register power supply
9	SDA	I	Control register data input
10	SCL	I	Control register CLK input
11	XSENABLE	I	Enable signal input for 3-wire control register
12	SEROUT	0	3-wire control register data readout
13	3WIRE/I ² C	I	Selection of input between I ² C bus and 3-wire bus
15	AVccADREF	_	Reference power supply for A/D converter
16, 94	AVccAD3	-	Analog power supply for A/D converter
17	VRT	0	Top reference voltage output for A/D converter
18, 92	DVccAD3	-	Digital power supply for A/D converter
19, 32, 42, 54, 65, 76, 90	DVccADTTL	-	TTL output power supply for A/D converter
20, 33, 44, 55, 67, 77, 89	DGNDADTTL	-	TTL output GND for A/D converter
21, 22, 24-28, 31	RA0 - RA7	0	Data output for R-channel port A side
23, 30, 43, 50, 59, 66, 79, 86	DGNDAD3	-	Digital GND for A/D converter
29, 80	AGNDAD3	-	Analog GND for A/D converter
34-41	RB0 - RB7	0	Data output for R-channel port B side
45-49, 51-53	BA0 - BA7	0	Data output for B-channel port A side
56-58, 60-64	BB0 - BB7	0	Data output for B-channel port B side
68-75	GA0 - GA7	0	Data output for G-channel port A side
78, 81-85, 87, 88	GB0 - GB7	0	Data output for G-channel port B side
91	DVccAD	_	Digital power supply for A/D converter
93	VRB	0	Bottom reference voltage output for A/D converter
95	AGNDADREF	-	Reference voltage GND for A/D converter
96	DVccPLLTTL	-	TTL output power supply for PLL
97	DGNDPLLTTL	-	TTL output GND for PLL
98	XCLK	0	Inverted CLK output
99	CLK	0	CLK output
100	1/2XCLK	0	Inverted 1/2CLK output
101	1/2CLK	0	1/2CLK output
103	DSYNC/DIVOUT	0	DSYNC or DIVOUT signal output
104	UNLOCK	0	Unlock signal output
105	SOGOUT	0	Output for SYNC ON GREEN
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HOLD

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PDP-504CMX/1

I Input for phase comparison disable signal

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No.	Symbol	I/O	Pin Function
107	XTLOAD	I	Programmable counter reset setting
108	EVEN/ODD	1	Inverted pulse input of ADC sampling CLK
109	XCLKIN	I	Inverted CLK input for testing
110	CLKIN	I	CLK input for testing
111	SYNCIN1	I	Sync input 1
112	SYNCIN2	ı	Sync input 2
113	CLPIN	ı	Clamp pulse input
114	DVccPLL	-	Digital power supply for PLL
115	DGNDPLL	-	Digital GND for PLL
116	AVccVCO	-	Analog power supply for PLL VCO
117	AGNDVCO	-	Analog GND for PLL VCO
118	RC1	_	External pin for PLL loop filter
119	RC2	_	External pin for PLL loop filter
120	AVccIR	_	Analog power supply for IREF
121	IREF	ı	Current setup
123	AGNDIR	_	Analog GND for TREF
124	G/YIN1	ı	G/Y signal input 1
125	AVccAMPG	_	Power supply for G/Y amplifier block
126	G/YIN2	ı	G/Y signal input 2
127	AGNDAMPG	_	GND for G/Y amplifier block
128	G/YCLP	_	Clamp capcitor for brightness
129	B/CbCLP	_	Clamp capcitor for brightness
130	R/CrCLP	_	Clamp capcitor for brightness
132	SOGIN1	ı	SYNC ON GREEN signal input 1
133	B/CbIN1	ı	B/Cb signal input 1
134	AVccAMPB	_	Power supply for B/Cb amplifier block
135	SOGIN2	ı	SYNC ON GREEN signal input 2
136	B/CbIN2	ı	B/Cb signal input 2
137	AGNDAMPB	_	GND for B/Cb amplifier block
139	R/CrIN1	ı	R/Cr signal input 1
140	AVccAMPR	_	Power supply for R/Cr amplifier block
141	R/CrIN2	ı	R/Cr signal input 2
142	AGNDAMPR	_	GND for R/Cr amplifier block
143	G/YOUT	0	Monitor pin for amplifier output signal
144	DAC TEST OUT	0	DAC testing output for amplifier block control register
14, 102, 122, 131, 138	DPGND	_	GND

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PDP-504CMX/1 7

■ SII1161CTU-K (AV I/O ASSY : IC7503)

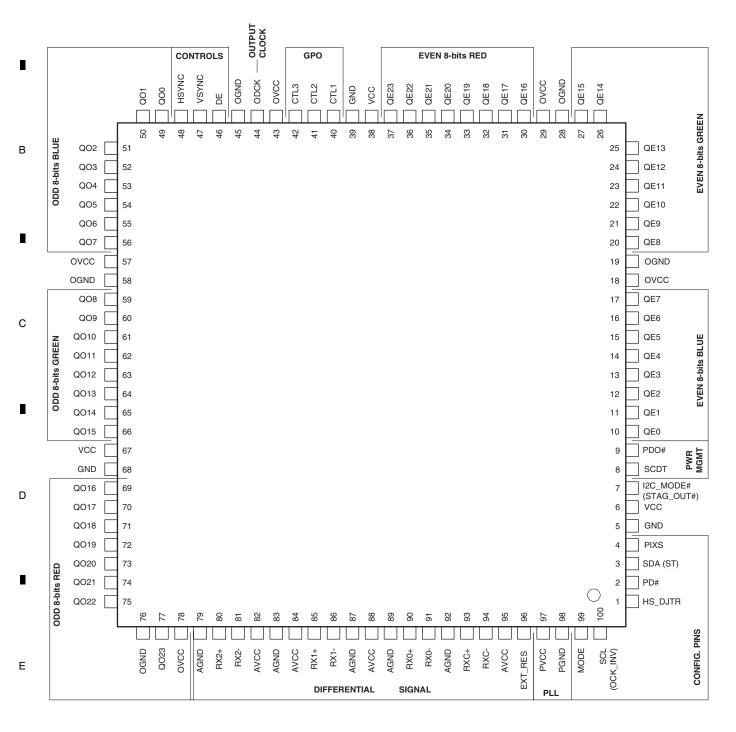
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• Panel Link Receiver IC

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Pin Arrangement (Top View)



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PDP-504CMX/1

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Pin Function

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Output Pins

Pin Name	No.	Туре	Function
QE23 - QE0	37-30, 27-20, 17-10	Out	Output Even Data[23:0] corresponds to 24-bit pixel data for one pixel per clock input mode and to the first 24-bit pixel data for two pixels per clock mode. Output data is synchronized with output data clock (ODCK). Refer to the TFT Panel Data Mapping section, which tabulates the relationship between the input data to the transmitter and output data from the receiver. A low level on PD# or PDO# will put the output drivers into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.
QO23 - QO0	77, 75-69, 66-59, 56-49	Out	Output Odd Data[23:0] corresponds to the second 24-bit pixel data for two pixels per clock mode. During one pixel per clock mode, these outputs are driven low. Output data is synchronized with output data clock (ODCK). Refer to the TFT Panel Data Mapping section, which tabulates the relationship between the input data to the transmitter and output data from the receiver. A low level on PD# or PDO# will put the output drivers into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.
ODCK	44	Out	Output Data Clock. This output can be inverted using the OCK_INV pin. A low level on PD# or PDO# will put the output driver into a high impedance (tri-state) mode. A weak internal pulldown device brings the output to ground.
DE	46	Out	Output Data Enable. This signal qualifies the active data area. A HIGH level signifies active display time and a LOW level signifies blanking time. This output signal is synchronized with the output data. A low level on PD# or PDO# will put the output driver into a high impedance (tri-state) mode. A weak internal pull-down device brings the output to ground.
HSYNC VSYNC CTL1 CTL2 CTL3	48 47 40 41 42	Out	Horizontal Sync output control signal. Vertical Sync output control signal. General output control signal 1. This output is not powered down by PDO#. General output control signal 2. General output control signal 3. A low level on PD# or PDO# will put the output drivers (except CTL1 by PDO#) into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground.

Differential Signal Data Pins

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Pin Name	No.	Туре	Function
RX0+ RX0- RX1+ RX1- RX2+ RX2-	90 91 85 86 80 81	Analog	Receiver Differential Data Pins. TMDS Low Voltage Differential Signal input data pairs.
RXC+ RXC-	93 94	Analog	Receiver Differential Clock Pins. TMDS Low Voltage Differential Signal input clock pair.
EXT_RES	96	Analog	Impedance Matching Control. An external 390Ω resistor must be connected between AVCC and this pin.

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Configuration Pins

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Pin Name	No.	Туре	Function		
MODE	99	In	Mode Select Pin. Used to select between drop-in strap-selected operation, or register programmable operation. To activate register-programmable operation, tie both pin 99 and pin 7 LOW. HIGH=161B (Compatible) Mode – strap selections are used to set part operation. Internal registers controlling non strap-selectable functions are reset to their default values. LOW=1161 (Programmable) Mode – I2C registers are used to program part operation.		
OCK_INV	100	la.	ODCK Polarity. A LOW level selects normal ODCK output. A HIGH level selects inverted ODCK output. All other output signals are unaffected by this pin. They will maintain the same timing no matter the setting of OCK_INV pin		
SCL	100 In		I ² C Port Clock. When pins 99 and 7 are tied LOW, pin 100 functions as an I ² C port input clock. The slave I ₂ C function does not ever try to extend cycles by pulling this pin low, so the pin remains input-only at all times. This pin accepts 3.3V signaling only; it is not 5V-tolerant.		
PIXS	4	In	Pixel Select. A LOW level indicates one pixel (up to 24-bits) per clock mode using QE[23:0] A HIGH level indicates two pixels (up to 48-bits) per clock mode using QE[23:0] for first pixel and QO[23:0] for second pixel.		
STAG_OUT#	7	In	Staggered Output. A HIGH level selects normal simultaneous outputs on all odd and even data lines. A LOW level selects staggered output drive. This function is only available in two pixels per clock mode.		
I2C_MODE#	#		This pin must be tied LOW to put the receiver into I ² C mode.		
ST		In/Out	Output Drive. A HIGH level selects HIGH output drive strength. A LOW level selects LOW output drive strength.		
SDA	3 In/Out		I ² C Port Data. When pins 99 and 7 are tied LOW, pin 3 functions as an I ² C port data I/O signal. This pin accepts 3.3V signaling only; it is not 5V-tolerant.		
HS_DJTR	1	In	HSYNC De-jitter. This pin enables/disables the HSYNC de-jitter function. To enable the HSYNC de-jitter function this pin should be HIGH. To disable the HSYNC de-jitter function this pin should be LOW.		

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Power Management Pins

Pin Name	No.	Туре	Function
SCDT	8 Out		Sync Detect. A HIGH level is outputted when DE is actively toggling indicating that the link is alive. A LOW level is outputted when DE is inactive, indicating the link is down. Can be connected to PDO# to power down the outputs when DE is not detected. The SCDT output itself, however, remains in the active mode at all times.
PDO#	9	ln	Output Driver Power Down (active LOW). A HIGH level indicates normal operation. A LOW level puts all the output drivers only (except SCDT and CTL1) into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground. PDO# is a sub-set of the PD# description. The chip is not in power-down mode with this pin. SCDT and CTL1 are not tri-stated by this pin.
PD#	2	In	Power Down (active LOW). A HIGH level indicates normal operation. A LOW level indicates power down mode. During power down mode, all the output drivers are put into a high impedance (tri-state) mode. A weak internal pull-down device brings each output to ground. Additionally, all analog logic is powered down, and all inputs are disabled. Driving PD# LOW disables all internal logic and outputs, including SCDT and clock detect functions; it also resets all internal programmable registers to their default states.

Power and Ground Pins

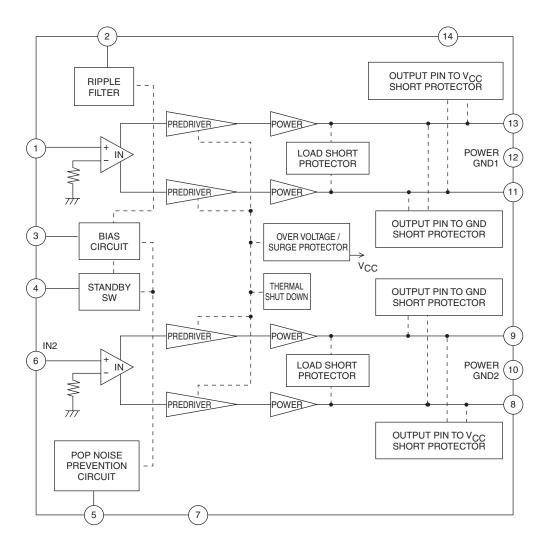
Pin Name	No.	Туре	Function
VCC	6, 38, 67	Power	Digital Core VCC, must be set to 3.3V.
GND	5, 39, 68	Ground	Digital Core GND.
ovcc	18, 29, 43, 57, 78	Power	Output VCC, must be set to 3.3V.
OGND	19, 28, 45, 58, 76	Ground	Output GND.
AVCC	82, 84, 88, 95	Power	Analog VCC must be set to 3.3V.
AGND	79, 83, 87, 89, 92	Ground	Analog GND.
PVCC	97	Power	PLL Analog VCC must be set to 3.3V.
PGND	98	Ground	PLL Analog GND.

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Block Diagram



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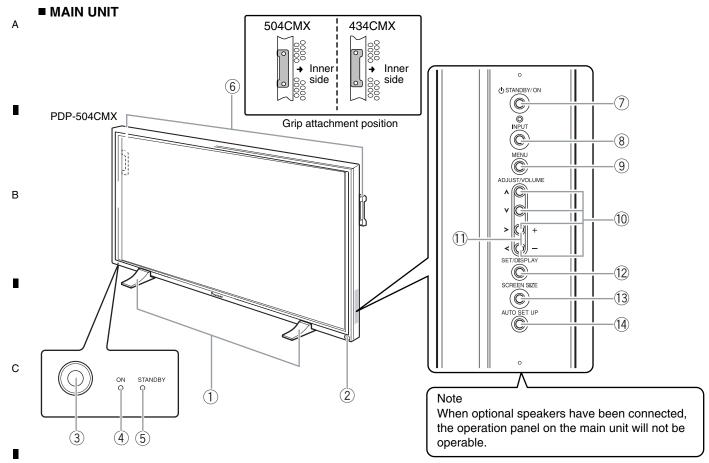
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Main unit

1 Display stand

2 Remote control sensor

Point the remote control toward the remote sensor to operate the unit.

3 Ambient light sensor

This sensor measures the level of light inside the viewing room; it is enabled when the [ENERGY SAVE] option is set to [AUTO] .

4 ON indicator

Lights green when the plasma display is operating. When flashing, the indicator is used to indicate error

The indicator flashes green once every two seconds when the [POWER MANAGEMENT] function is operating.

5 STANDBY indicator

Lights red when the unit is in standby mode. When flashing, the indicator is used to indicate error messages.

6 Handles

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The plasma displays PDP-50MXE1/PDP-50MXE1-S and PDP-43MXE1/PDP-43MXE1-S utilize differing methods of handle attachment, but the handles themselves are used in the same way.

Operation panel on the main unit

7 STANDBY/ON button

Press to put the display in operation or standby mode.

Operation panel on the main unit

® INPUT button

Press to select the input.

9 MENU button

Press to open and close the on-screen menu.

10 ADJUST (▲ / ▼ / ► / ◀) buttons

Use these buttons to move the onscreen cursor between selection options, and to perform adjustments. Instructions for use are given with each command option onscreen.

1) VOLUME (+/-) buttons

When not indicated for use in onscreen menu items, these buttons are used for adjusting the sound volume.

12 SET/DISPLAY button

Use to confirm onscreen menu selections, and to change settinas.

When not indicated by onscreen menus, used to display the current set status.

13 SCREEN SIZE button

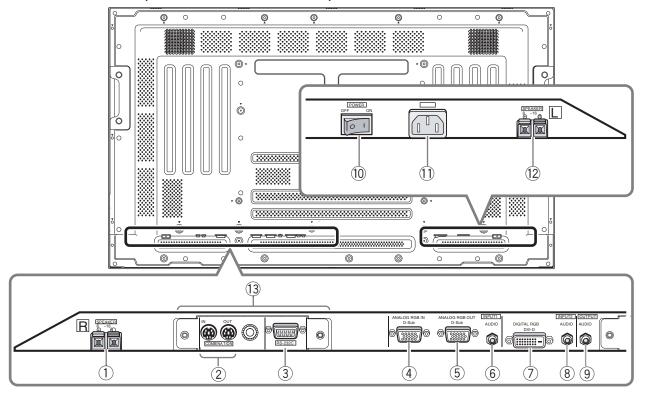
Press to select the screen size.

(14) AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

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■ CONNECTION PANEL (PLASMA DISPLAY SECTION)



Plasma Display Section

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The plasma display is provided with 2 video input connectors, 1 video output connector, audio input/output jacks and speaker terminals.

When this video card is installed on a plasma display, an additional three sets of video input connectors are provided (total five), together with one additional video output connector (total two).

1 SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker that has an impedance of 8 -16 Ω .

② COMBINATION IN/OUT

Never connect any component to these connectors without first consulting your Pioneer installation technician.

These connectors are used in the factory setup.

③ RS-232C

Never connect any component to this connector without first consulting your Pioneer installation technician. This connector is used in the factory setup.

4 ANALOG RGB IN (INPUT1) (mini D-sub 15 pin)

For connection of a personal computer (PC) or similar component. Make sure that the connection made corresponds to the format of the signal output from the connected component.

(5) ANALOG RGB OUT (INPUT1) (mini D-sub 15 pin)

Use the ANALOG RGB OUT (INPUT1) terminal to output the video signal to an external monitor or other component.

Note: The video signal will not be output from the ANALOG RGB OUT (INPUT1) terminal when the main power of this unit is off or in standby mode.

6 AUDIO (INPUT1) (Stereo mini jack)

Use to obtain sound when INPUT1 is selected. Connect the audio output jack of components connected to INPUT1 to this unit.

7 DIGITAL RGB (INPUT2) (DVI-D jack)

Use to connect a computer. Note: This unit does not support the display of copyguard-protected video signals.

® AUDIO (INPUT2) (Stereo mini jack)

Use to obtain sound when INPUT2 is selected. Connect the audio output jack of components connected to INPUT2 to this unit.

AUDIO (OUTPUT) (Stereo mini jack)

Use to output the audio of the selected source component connected to this unit to an AV amplifier or similar component.

10 MAIN POWER switch

Use to switch the main power of the unit on and off.

(1) AC IN

Use to connect a power cord to an AC outlet.

12 SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of 8 -16 Ω .

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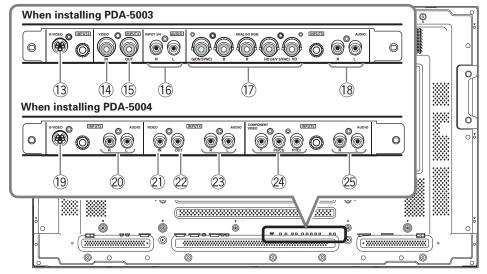
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■ CONNECTION PANEL (VIDEO CARD SECTION: PDA-5003, PDA-5004)



Video Card <PDA-5003> Section

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The video card is provided with 3 video input connectors, 1 video output connector, and 2 audio input connectors. Consult the pages noted in parentheses () for details regarding connections to the various jacks and connectors.

(13) S-VIDEO (INPUT3) (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD recorder).

(4) VIDEO IN (INPUT4) (BNC jack)

For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

(5) VIDEO OUT (INPUT4) (BNC jack)

Use the VIDEO OUT (INPUT4) jack to output the video signal to an external monitor or other component. Note: The video signal will not be output from the VIDEO OUT (INPUT4) jack when the main power of this display is off or in standby mode.

(6) AUDIO R/L (INPUT3/4) (RCA Pin jacks)

Use to obtain sound when INPUT3 or INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT3 or INPUT4

Note: The left audio channel (L) jack is not compatible with monaural input sources.

(7) ANALOG RGB (INPUT5) (BNC jacks)

For connecting components equipped with RGB outputs jacks, such as a personal computer or external RGB decoder; or components equipped with component output jacks, such as a DVD recorder.

Make sure that the connection made corresponds to the format of the signal output from the connected component.

(18) AUDIO R/L (INPUT5) (RCA Pin jacks)

Use to obtain sound when INPUT5 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT5.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

Video Card <PDA-5004> Section

3

The video card is provided with 3 video input connectors, 1 video output connector, and 3 audio input connectors. Consult the pages noted in parentheses () for details regarding connections to the various jacks and connectors.

(19 S-VIDEO (INPUT3) (S-video jack)

For connection of components that have an S-video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

20 AUDIO R/L (INPUT3) (RCA Pin jacks)

Use to obtain sound when INPUT3 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT3.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

21) VIDEO IN (INPUT4) (RCA Pin iack)

For connection of components that have a composite video output jack such as a video deck, video camera, laser disc player, or DVD recorder.

22 VIDEO OUT (INPUT4) (RCA Pin jack)

Use the VIDEO OUT (INPUT4) jack to output the video signal to an external monitor or other component. Note: The video signal will not be output from the VIDEO OUT (INPUT4) jack when the main power of this display is off or in standby mode.

23 AUDIO R/L (INPUT4) (RCA Pin jacks)

Use to obtain sound when INPUT4 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT4.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

24 COMPONENT VIDEO (INPUT5) (RCA Pin jacks)

For connection of components that have component video output jacks such as a DVD recorder.

25 AUDIO R/L (INPUT5) (RCA Pin jacks)

Use to obtain sound when INPUT5 is selected. Connect these jacks to the audio output connectors of components connected to the video card's INPUT5.

Note: The left audio channel (L) jack is not compatible with monaural input sources.

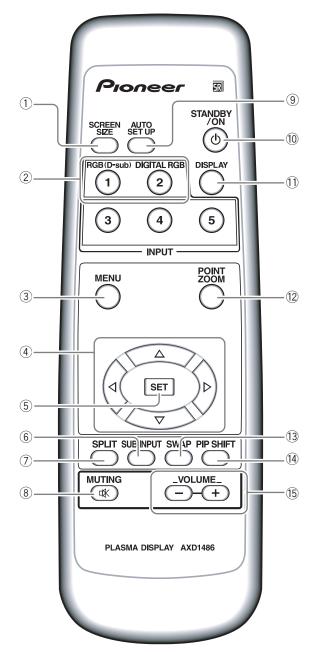
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PDP-504CMX/1

2

■ REMOTE CONTROL UNIT



1) SCREEN SIZE button

Press to select the screen size.

2 INPUT buttons

Press to select the input.

3 MENU button

Press to open and close the on-screen menu.

④ ADJUST (**▲** / **▼** / **▶** / **◄**) buttons

Use to navigate menu screens and to adjust various settings on the unit.

Usage of cursor buttons within operations is clearly indicated at the bottom the on-screen menu display.

5 SET button

Press to adjust or enter various settings on the unit.

6 SUB INPUT button

During multi-screen display, use this button to change inputs to subscreens.

(7) SPLIT button

Press to switch to multi-screen display.

8 MUTING button

Press to mute the volume.

9 AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

10 STANDBY/ON button

Press to put the unit in operation or standby mode.

11 DISPLAY button

Press to view the unit's current input and setup mode.

12 POINT ZOOM button

Use to select and enlarge one part of the screen. SWAP button During multi-screen display, use this button to switch between main screen and subscreen.

(4) PIP SHIFT button

When using PinP mode with multi-screen display, use this button to move the position of subscreen.

15 VOLUME (+/-) buttons

Use to adjust the volume.

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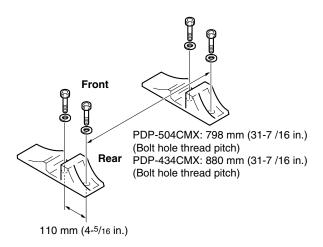
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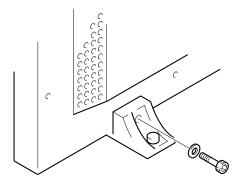
Installation using the supplied display stand

Be sure to fix the supplied stand to the installation surface. Use commercially available M8 bolts that are 25 mm longer than the thickness of the installation surface.

1. Fix the supplied stand to the installation surface at each of the 4 prepared holes using commercially available M8 bolts .



3. Fix this unit using the supplied washer and bolt.

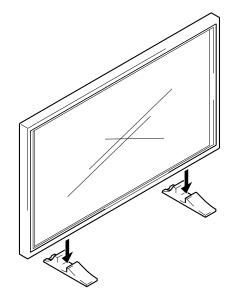


Use a 6 mm ($^{1}/_{4}$ in.) hex wrench to bolt them.

2. Set this unit in the stand.

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A CAUTION

This display unit weighs at least 30 kg (67 lbs) and has little front-to-back depth, making it very unstable when stood on edge. As a result, two or more persons should cooperate when unpacking, moving, or installing the display.

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Installation using the optional PIONEER stand or installation bracket

- Please be sure to request installation or mounting of this unit or the installation bracket by an installation specialist or the dealer where purchased.
- When installing, be sure to use the bolts provided with the stand or installation bracket.
- For details concerning installation, please refer to the instruction manual provided with the stand or installation bracket.

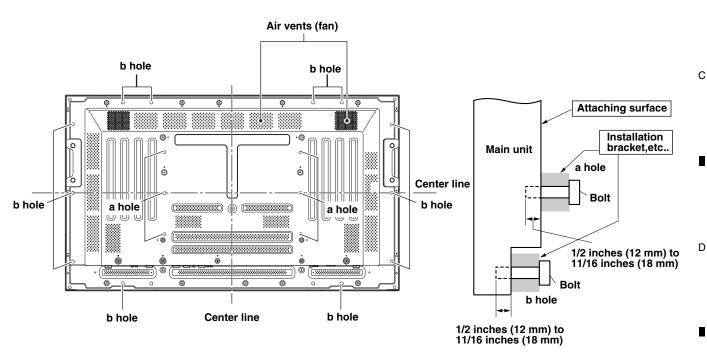
Installation using accessories other than the PIONEER stand or installation bracket (sold separately)

- When possible, please install using parts and accessories manufactured by PIONEER. PIONEER will not he held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.
- For custom installation, please consult the dealer where the unit was purchased, or a qualified installer.

Wall-mount installation of the unit

This unit has been designed with bolt holes for wall-mount installation, etc.. The installation holes that can be used are shown in the diagram below.

- Be sure to attach in 4 or more locations above and below, left and right of the center line.
- Use bolts that are long enough to be inserted 1/2 inch (12 mm) to 11/16 inch (18 mm) into the main unit from the attaching surface for both a holes and b holes. Refer to the side view diagram below.
- As this unit is constructed with glass, be sure to install it on a flat, unwarped surface.



Rear view diagram

Side view diagram



CAUTION

To avoid malfunction, overheating of this unit, and possible fire hazard, make sure that the vents on the main unit are not blocked when installing. Also, as hot air is expelled from the air vents, be careful of deterioration and dirt build up on rear surface wall, etc..



5

Please be sure to use an M8 (Pitch = 1.25 mm) bolt. (Only this size bolt can be used.)

CAUTION

Because this unit weighs about 88 lbs 3 oz (about 40 kg) and the lack of depth makes it fairly unstable, please use 2 people or more when packing, carrying or installing.



CAUTION

This unit incorporates a thin design. To ensure safety if vibrated or shaken, please be sure to take measures to prevent the unit from tipping over.

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